MULTIPLE COMPACT DISC PLAYER

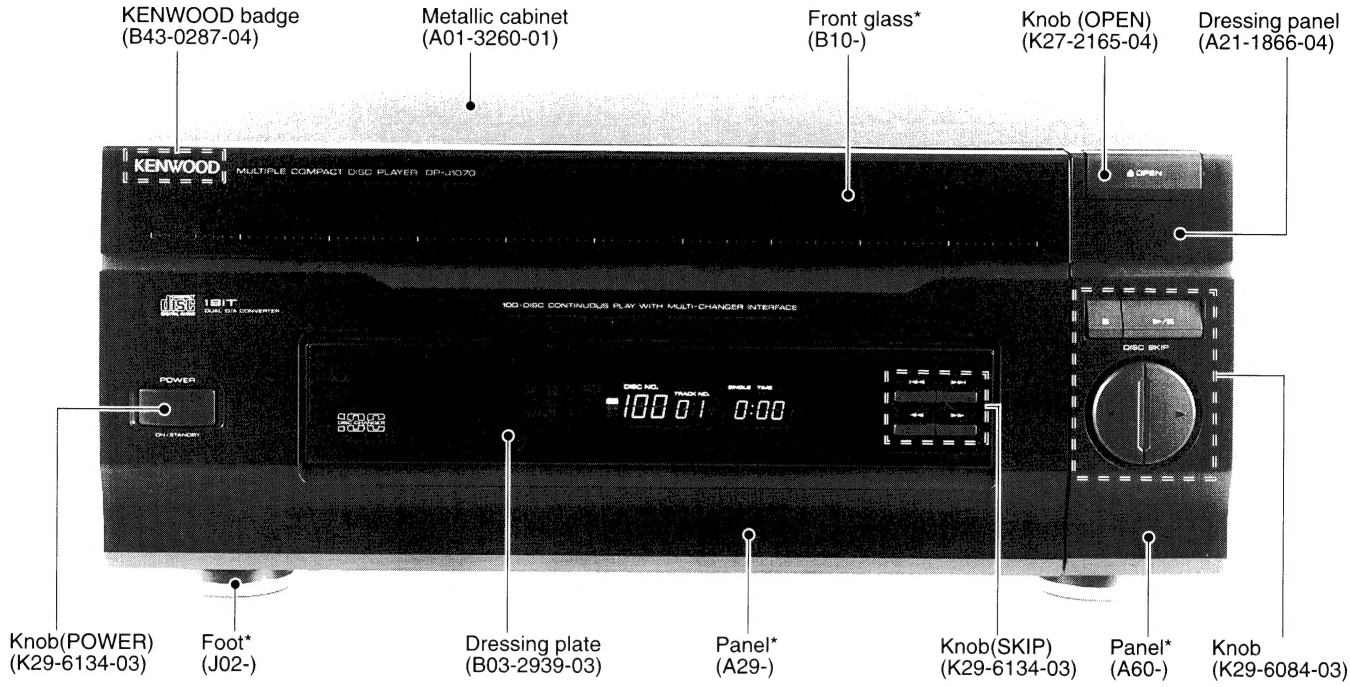
DP-J695/J1070/J2070

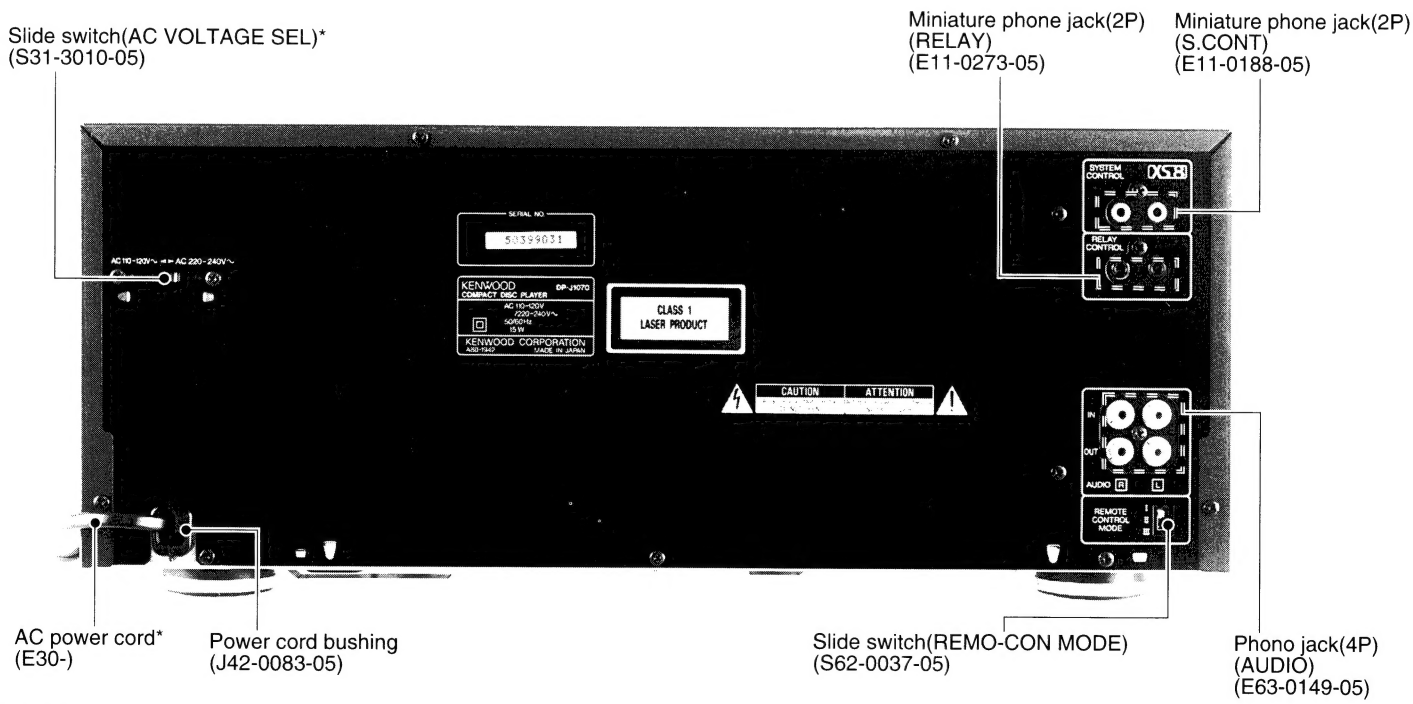
SERVICE MANUAL

KENWOOD

B51-5071-00 (K) 4010

DP-J695/J1070





In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

Photo is DP-J1070.

***Refer to parts list on page 39.**

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DP-J695/J1070/J2070

CONTENTS / ACCESSORIES

Refer to the following service manual, if detailed description about items in the table below is needed.

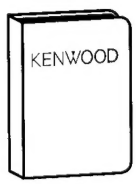
Ref No.	IC Name	Reference S/M	Page
IC1	CXA1782BQ	DP-ME9	9,10
IC2	CXD2500BQ	DP-MA5/MA9	17,18
IC7	CXD2512AQ	DP-R6070	7,8

*1

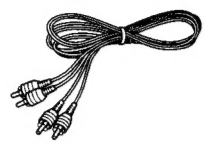
RC-P0201	A70-1013-15	DP-J2070	KPYXTEG
RC-P0201	A70-1040-05	DP-J2070	M
RC-P0100	A70-1014-15	DP-J695/J1070	KRPYX
RC-P0100	A70-1041-05	DP-J695/J1070	M

Accessories

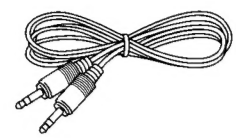
Liner note file
(W01-0879-05)



Audio cord (1)
(E30-0505-05)



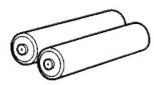
System control cord (1)
(E30-2733-05)



Remote control unit (1)
*1

Battery cover : (A09-0303-08)

Batteries (R6/AA) (2)



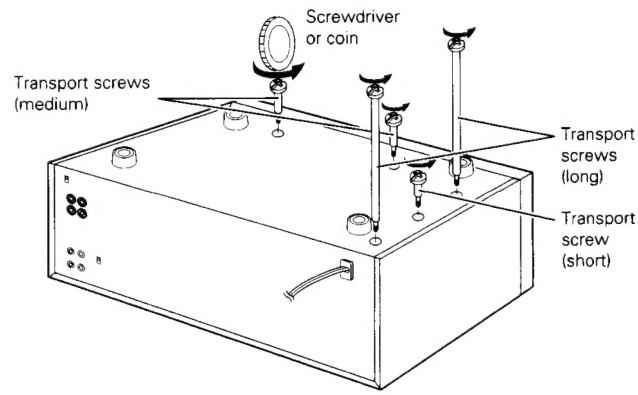
AC Plug adaptor (1)
(E03-0115-05) M type only

Removing the transport screws

Before using the unit, remove the 5 red transport screws (long x 2, medium x 2, short x 1) on the rear panel.
The screws can be removed by rotating in the directions of the arrows. After removing, be sure to retain the screws in a plastic bag, etc. They will be required the next time the unit is transported.
Before transporting the unit again, remove all discs from the rack, switch the power OFF and attach screws to their respective transport fixing holes.

Note

This unit incorporates precision mechanisms. Avoid applying shock to the unit after the transport screws have been removed. Shock may cause malfunction of the mechanisms.



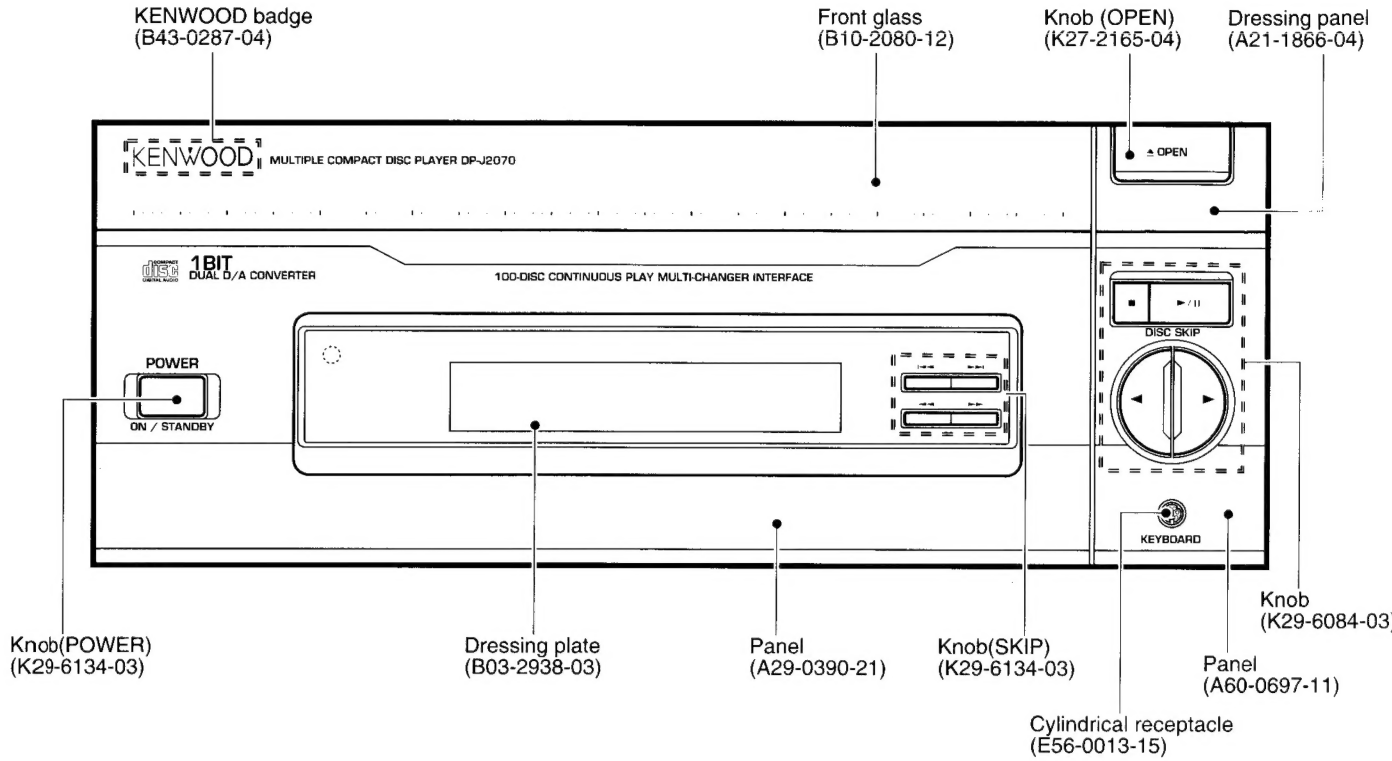
Beware of condensation

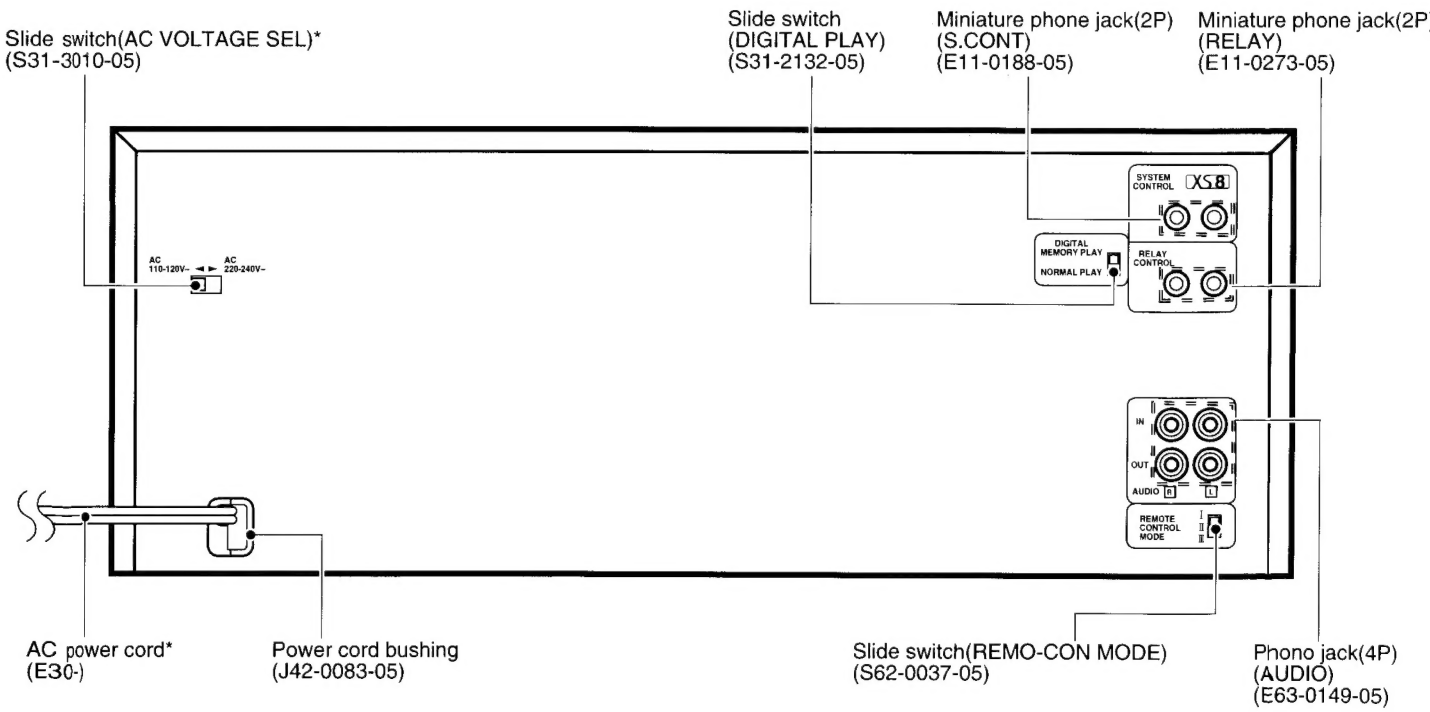
When water vapor comes into contact with the surface of cold material, water drops are produced.
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.
This is not a malfunction, however, and the unit should be dried.
(To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:
- When the unit is brought from a cold place to warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

EXTERNAL VIEW

DP-J2070





Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following method to reset the microcomputer and return it to normal condition.

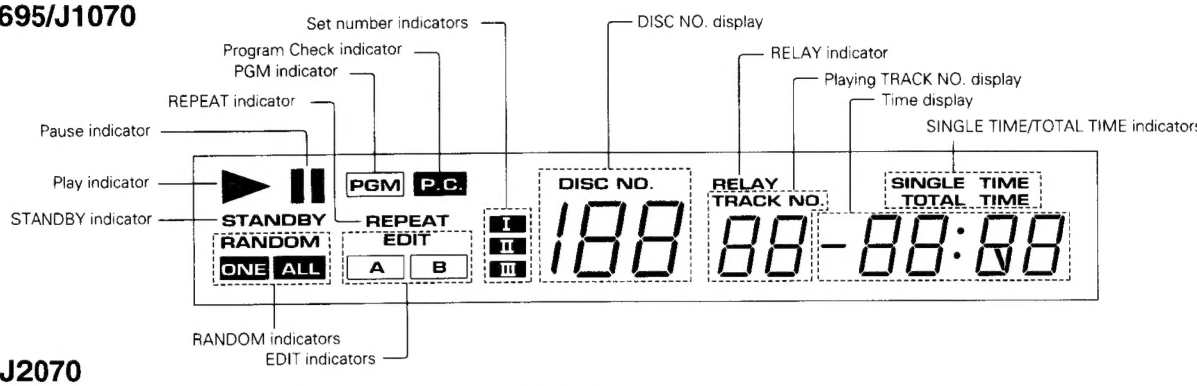
Unplug the power cord from the power socket and, while holding the STOP key depressed, plug the power cord into the socket again.

- Please note that restarting the microcomputer clears the contents stored in it and returns it to the condition when it left the factory.

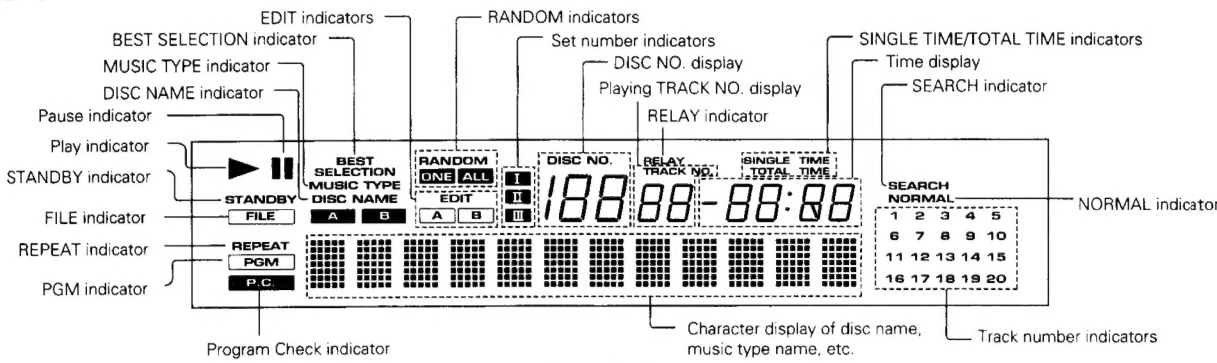
DP-J695/J1070/J2070

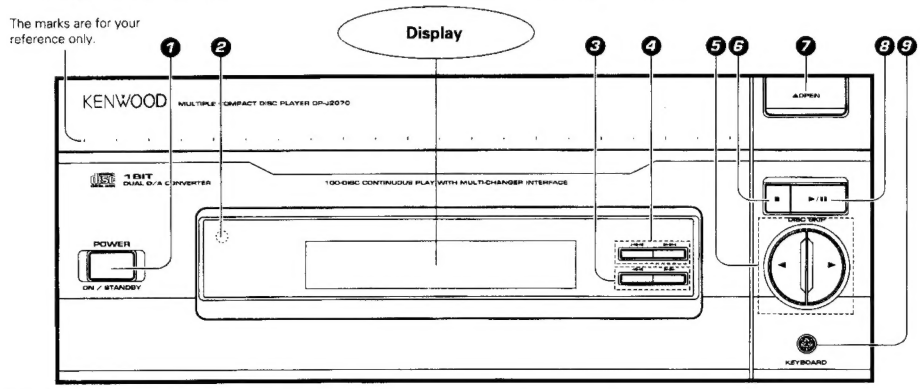
CONTROLS

DP-695/J1070

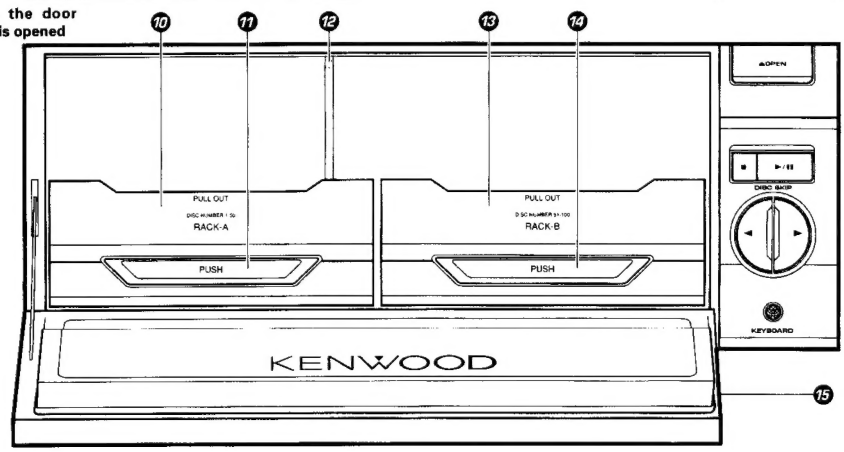


DP-J2070





When the door panel is opened



❶ **POWER key**
❷ **Remote sensor**
❸ **Search keys (◄◄ ►►)**
Press to move the played position of disc at high speed.
❹ **Skip keys (|◄◄ ►►|)**
Press to skip to the beginning of another track.
❺ **DISC SKIP key**
Press to select discs.
❻ **Stop key (■)**
❼ **OPEN (▲) key**
Press to open the door panel.
❽ **Play/pause key (►/II)**

❾ **KEYBOARD connector** (DP-J2070 only)
For use in character input operation, an IBM-compatible PC keyboard can be connected here.
❿ **Disc RACK A**
⓫ **Disc RACK A lock button**
Push and hold to slide out disc rack A.
⓬ **Selected disc indicator**
The LED corresponding to the current selected disc lights.
⓭ **Disc RACK B**
⓮ **Disc RACK B lock button**
Push and hold to slide out disc rack B.
⓯ **Door panel**

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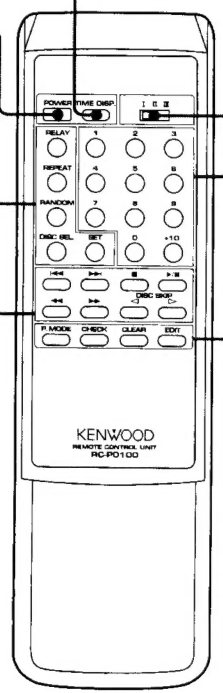
TIME DISP. key
Press to switch the time display.

POWER key

RELAY key
Press to start relay playback.
REPEAT key
Press to start repeated playback.
RANDOM key
Press to start random playback.
DISC SEL. (Disc select) key
Press to select a disc number.
SET key
Press to set a disc number or track number.

Basic operation keys

DISC SKIP keys
Each press of a key increases (or decreases) the disc number by 1.



Remote control mode switch
Set to the same position as the REMOTE CONTROL MODE switch on the rear panel of the main unit.

Numeric keys
Press to input a disc number, track number, etc.

P.MODE (Play mode) key
Press to switch the play mode.
CHECK key
Press to check the contents of a program.
CLEAR key
Press to clear the input information.
EDIT key
Press to start editing.

Model: RC-P0100
Infrared ray system

DP-J2070

TIME DISP. key
Press to switch the time display.

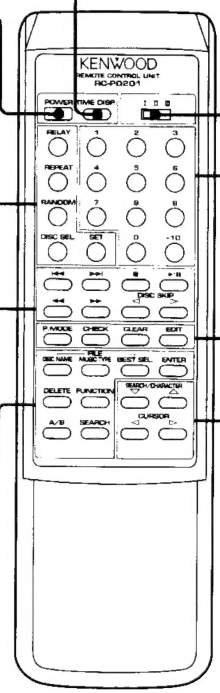
POWER key

RELAY key
Press to start relay playback.
REPEAT key
Press to start repeated playback.
RANDOM key
Press to start random playback.
DISC SEL. (Disc select) key
Press to select a disc number.
SET key
Press to set a disc number or track number.

Basic operation keys

DISC SKIP keys
Each press of a key increases (or decreases) the disc number by 1.

DISC NAME key
Press when registering or recalling disc names.
MUSIC TYPE key
Press when registering or recalling music types.
BEST SEL. (Best selection) key
Press when registering or recalling best selections.
ENTER key
Press to enter a file function in memory.
DELETE key
Press to delete a file.
FUNCTION key
Press to switch the sets of characters to be input.
A/B key
Press to switch between sides A and B of a disc name file.
SEARCH key
Press to search disc name files.



Remote control mode switch
Set to the same position as the REMOTE CONTROL MODE switch on the rear panel of the main unit.

Numeric keys
Press to input a disc number, track number, etc.

P.MODE (Play mode) key
Press to switch the play mode.
CHECK key
Press to check the contents of a program.
CLEAR key
Press to clear the input information.
EDIT key
Press to start editing.

SEARCH/CHARACTER keys
Use in character input or file search operations.
CURSOR keys
Use in character input operation.

Model: RC-P0201
Infrared ray system

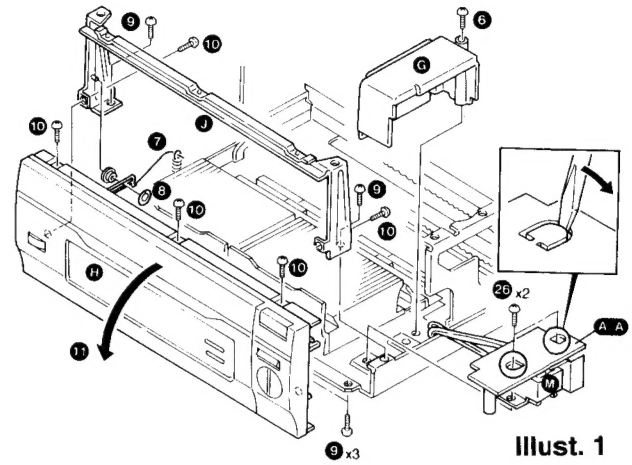
DP-J695/J1070/J2070

DISASSEMBLY FOR REPAIR

1. How to remove the Power transformer

Illust. 1

1. Remove the one screw (6) to remove the Insulating cover (G).
2. Open the two holes on the Transformer PCB (X32- F/9) (AA) by using a flatblade screwdriver, etc., as illustrated in the drawing.
3. Remove the two screws (26) to remove the Transformer (M) from the Main chassis.



Illust. 1

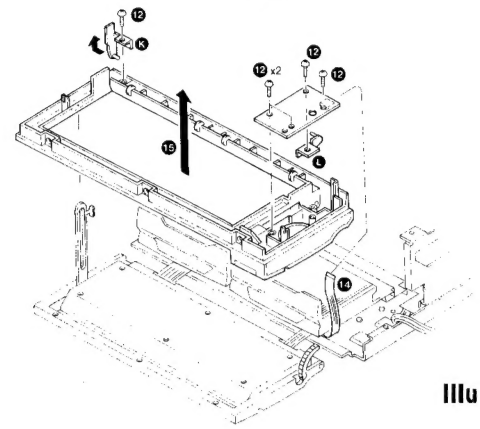
2. How to remove the Front panel and the Display PCB (X32- C/9)

Illust. 1

1. Remove the Spring (7) and the Flat washer (8).
2. Remove the five screws (9) to remove the Front panel ass'y (H).
3. Remove the five screws (10) to remove the Frame (J) from the Front panel.
4. Lay out the removed the Front panel as shown above (11). (Take care not to damage the Flat cable.)

Illust. 2

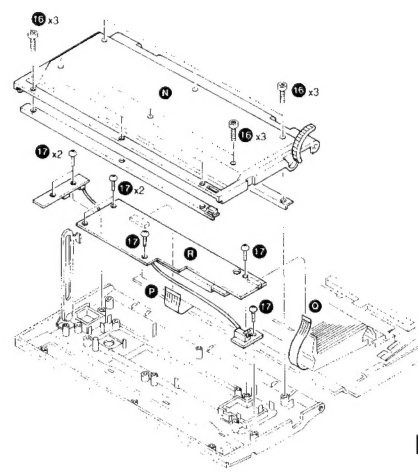
5. Remove the five screws (12), the Pin L (K) and the Pin R (L).
6. Remove the Flat cable (9p) (14) to remove the Sub panel (15).



Illust. 2

Illust. 3

7. Remove the nine screws (16) to remove the Front cover (N).
8. Remove the seven screws (17) and the two Flat cables (21p) (P) / (9p)(Q) to remove the Display PCB (X32- C/9) (R).



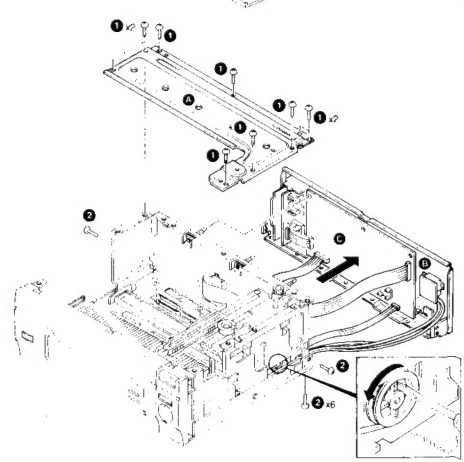
Illust. 3

3. How to remove the Mechanism ass'y

* Prior to the work, move the Mechanism ass'y to the far right position (Home position) by turning the Pulley (AB) in the direction of the arrow in the drawing.

Illust. 4

1. Remove the nine screws (1) to remove the Sub chassis (Top) (A).
2. Remove the eight screws (2) to remove the Rear panel (B) and CD Player unit (X32-205) (C).

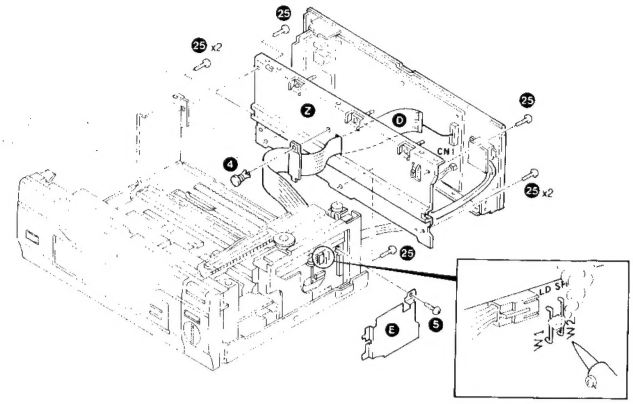


Illust. 4

DISASSEMBLY FOR REPAIR

Illust. 5

3. Remove the seven screws (25) to remove the Sub chassis (Rear) (Z).
4. Remove the one screw (5) to remove the Cover (E).
5. Short the W1 and W2 on the Mechanism PCB.
6. Remove the Push-revet (4) and the Flat cable (31p) (D) from CN1 on the CD Player unit (X32- A/9).

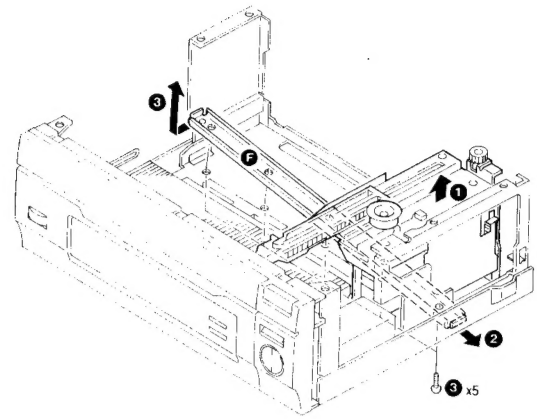


Illust. 5

Illust. 6

7. Remove the five screws (3).
8. Raise the Mechanism ass'y in the direction (1) in the drawing together with the Rail (F).
9. As moving the Rail (F) to the right side (direction (2)), raise it upward (direction (3)).
10. Remove the Mechanism ass'y as pulling the Mechanism ass'y to the left side together with the Rail (F).

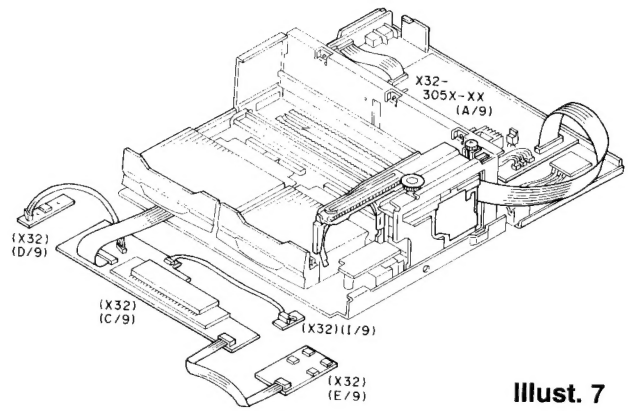
* It will be easier for you to work with it if you open the Door Panel and pull out the Stockers A and B in advance.



Illust. 6

Illust. 7

11. Lay out the removed the Mechanism ass'y, Rear panel and X32- PCB as shown below. Apply power to check or repair.



Illust. 7

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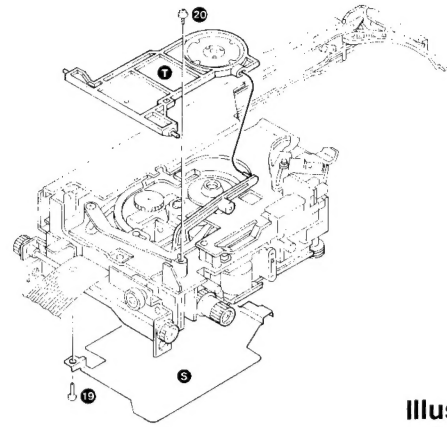
DISASSEMBLY FOR REPAIR

4. How to remove the Pickup

Illust. 8

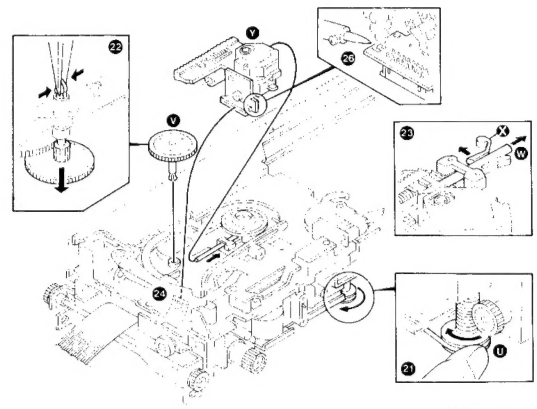
1. Remove the one screw (19) to remove the PCB Cover (S).
2. Remove the one screw (20) to remove the Sub chassis (Clamp) (T).



Illust. 8

Illust. 9

3. Turn the Pulley (U) in the direction of the arrow in the drawing so that the Pickup ass'y will reach the highest position.
4. While pushing the lock part of the Gear (V) with a tweezers, etc., remove the Gear (22).
5. Remove the Rod (W) and the Stopper (X), and pull the Rod until the Rod stops. (23)
6. Short the short-land on the Pickup PCB (26).
7. Remove the Flat cable (16P) (24) to remove the Pickup ass'y (Y).

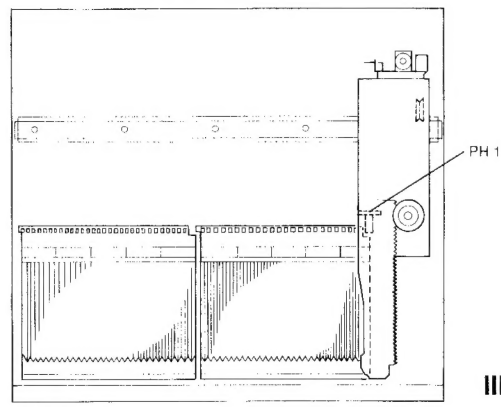


Illust. 9

5. How to adjust the Gear when the Mechanism is installed to the main unit

Illust. 10

1. The Mechanism ass'y can be installed only the position of the PH1 is 50-disc (center) or 100-disc (right side of the Stocker B).

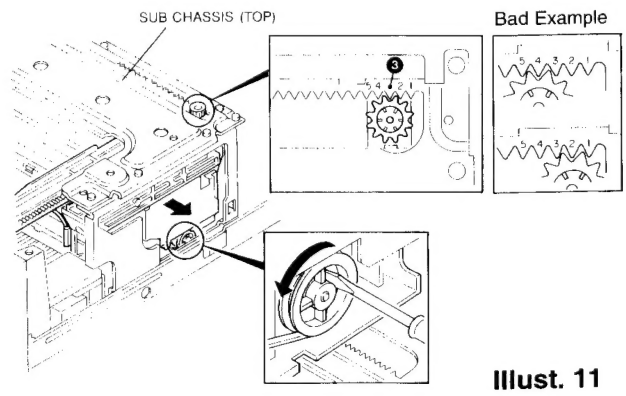


Illust. 10

Illust. 11

2. Turn the Pulley in the derection of the arrow in the drawing to the far-right position.
3. Attach the Sub chassis (Top) so that the third protrusion from the right end of the Sub chassis (Top) (#3 in the drawing) will be in mesh with the Gear as shown in the drawing. The position of the gear's rib is not relevant here.

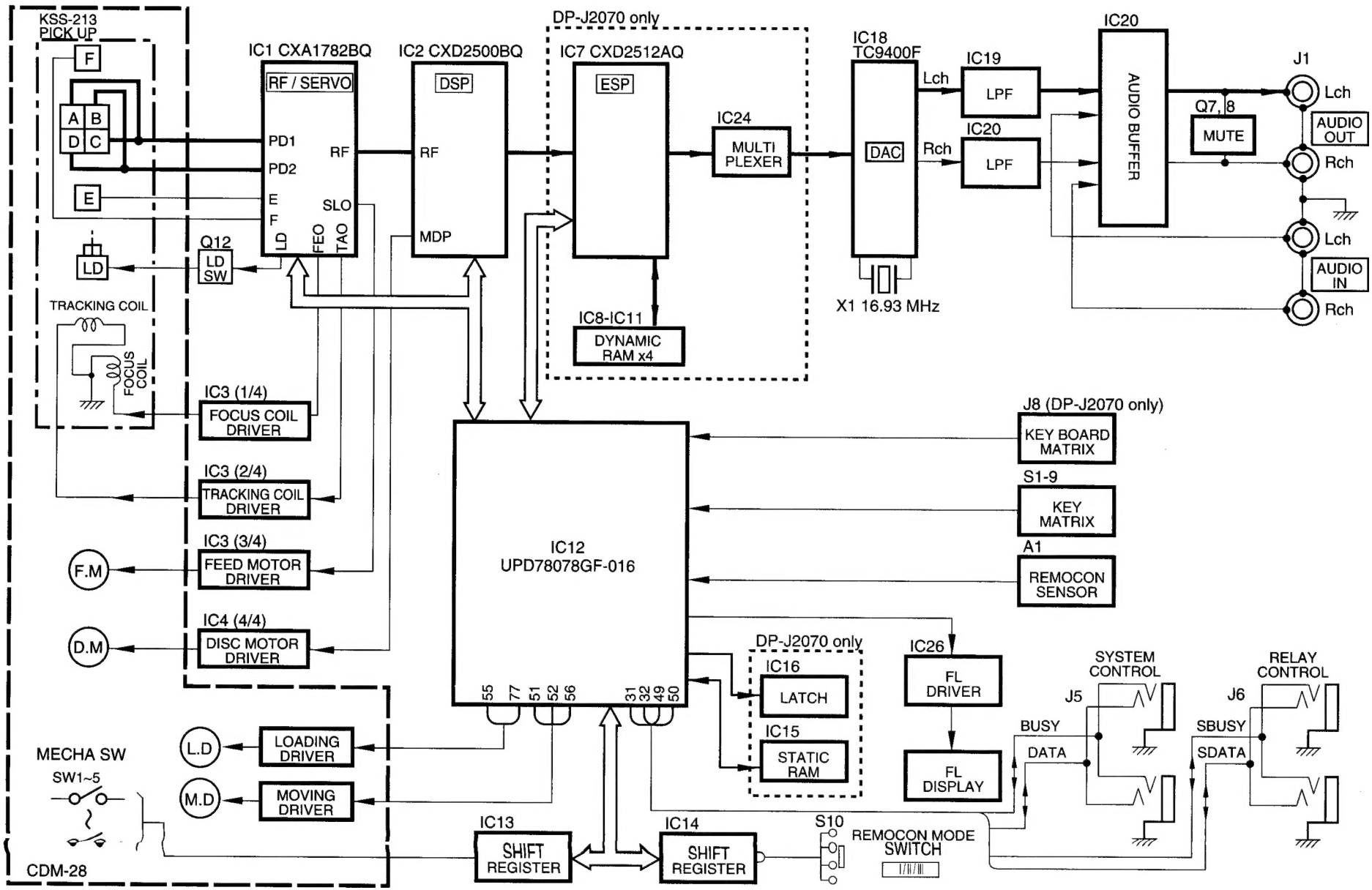
Bad Example: The mesh of the underlying gear will be dislocated.



Illust. 11

DP-J695/J1070/J2070

BLOCK DIAGRAM



DP-J695/J1070/J2070

CIRCUIT DESCRIPTION

1. Test mode

1-1 MODE "01" : Adjustment

Step	Key name	Description	Display
1	FF key(►►)+AC	SET THE TEST MODE	– – 01
2	PLAY(►)	DISC100 LOADING (1) Focus Servo.....ON (2) Tracking Servo.....ON (3) Feed Servo .....ON	100 05
3	DOWN(I◄◄)	DISC100 LOADING (1) Focus Servo.....ON (2) Tracking Servo.....OFF (3) Feed Servo.....OFF	100 03
4	STOP(■)	STOP	– – 00
5	UP(►►I)	Display goes on ↕ Display goes off	

※ "STEP 1: FF key+AC" means to press POWER key as you press the ►► key.
※ At STEP 2 and STEP 3, set a disc to "DISC No. 100" in advance so that "DISC #100" will be loaded.
※ When STEP 3 is executed before STEP 2, the time will not be displayed at STEP 2, but this is not a malfunction.

1-2 MODE "99": used to check actual operation

Step	Key name	Description	Display
1	STOP key(■)+AC	(1) All the file contents shall be cleared (2) Return MD to Home position	

※ If the MODE "99" is set, the TEST MODE will be automatically released.

1-3 MODE "10": Mechanism Function Check #1: Continuous Disc Change

Step	Key name	Description	Display
1.	"→" Key+AC	Enter into the TEST MODE, and	
		Change to DISC #75 after DISC #100 is loaded	100 10
		Change to DISC #51 after DISC #75 is loaded	75 10
		Change to DISC #50 after DISC #51 is loaded	51 10
		Change to DISC #25 after DISC #50 is loaded	50 10
		Change to DISC #1 after DISC #25 is loaded	25 10
		Return to Home position after DISC #1 is loaded	01 10

※ If the MODE "10" is set, the TEST MODE will be automatically released.
※ If there is no disc at the specified DISC NUMBER, it will be changed to the next DISC NUMBER.
※ If there is anything wrong with the mechanism, the MD will stop automatically.

1-4 MODE "11": Mechanism Function Check #2: Continuous Disc Change

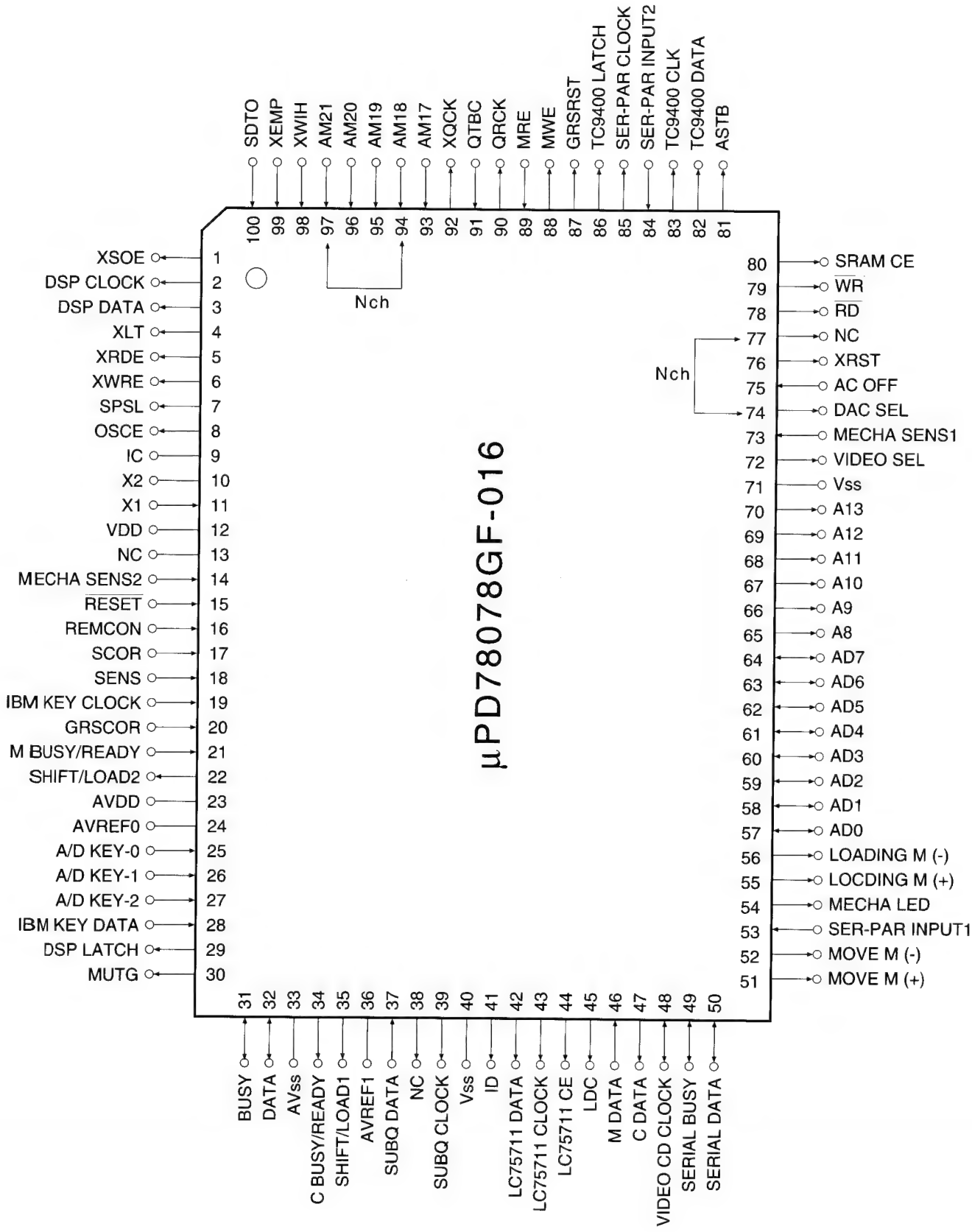
Step	Key name	Description	Display
1.	"→" Key+AC	Enter into the TEST MODE, and	
		Change to DISC #25 after DISC #1 is loaded	01 11
		Change to DISC #50 after DISC #25 is loaded	25 11
		Change to DISC #51 after DISC #50 is loaded	50 11
		Change to DISC #75 after DISC #51 is loaded	51 11
		Change to DISC #100 after DISC #75 is loaded	75 11
		Return to Home position after DISC #100 is loaded	100 11

※ If the MODE "11" is set, the TEST MODE will be automatically released.
※ If there is anything wrong with the mechanism,the MD will stop automatically.

CIRCUIT DESCRIPTION

2. Microprocessor : μPD78078GF-016 (X32-A/9,IC12)

2-1 Pin layout



CIRCUIT DESCRIPTION

2-2 Pin description

No.	Name	I/O	Description
1	XSOE	O	CXD2512AQ data transfer request
2	DSP CLOCK	O	CXD2500/CXD2512AQ CLOCK
3	DSP DATA	O	CXD2500/CXD2512AQ DATA
4	XLT	O	CXD2512AQ LATCH
5	XRDE	O	CXD2512AQ DRAM read enable signal
6	XWRE	O	CXD2512AQ DRAM write enable signal
7	SPSL	O	CXD2512AQ serial/parallel switch (L : parallel)
8	OSCE	O	CXD2512AQ crystal enable signal (H : enable)
9	IC	-	Connected to VSS
10	X2	-	Main system clock
11	X1	I	Main system clock
12	VDD	-	Power supply
13	NC	-	Not used
14	MECHA SENS2	I	Disc in/out detection
15	$\overline{\text{RESET}}$	I	System reset
16	REMCON	I	Remote control signal input
17	SCOR	I	CXD2500 sub code synchro detection
18	SENS	I	CXA1372 SENSE signal input
19	IBM KEY CLOCK	I	IBM P/C keyboard clock input
20	GRSCOR	I	CXD2512AQ GRSCOR
21	M BUSY/READY	I	Not used
22	SHIFT/LOAD2	O	TC74HC165AF(IC14) LATCH
23	AVDD	-	A/D analog power supply (Connected to VDD)
24	AVREF0	-	A/D reference power supply (Connected to VDD)
25	A/D KEY-0	I	A/D key (CH0)
26	A/D KEY-1	I	A/D key (CH1)
27	A/D KEY-2	I	A/D key (CH2)
28	IBM KEY DATA	I	IBM P/C keyboard data input
29	DSP LATCH	O	CXD2500 LATCH
30	MUTG	O	CXD2500 digital mute (H : mute)
31	BUSY	I/O	Busy signal I/O
32	DATA	I/O	DATA signal I/O
33	AVss	-	A/D GND (Connected to Vss)
34	C BUSY/READY	O	Not used
35	SHIFT/LOAD1	O	TC74HG165AF(IC13) LATCH
36	AVREF1	-	D/A reference power supply (Connected to VDD)
37	SUBQ DATA	I	CXD2500 sub code read
38	NC	O	Not used
39	SUBQ CLOCK	O	CXD2500 sub code read clock
40	VSS	-	GND

CIRCUIT DESCRIPTION

No.	Name	I/O	Description
41	ID	I	Model detection (H : DP-J2070, L : DP-J695/J1070)
42	LC75711 DATA	O	LC75711E DATA
43	LC75711 CLOCK	O	LC75711E CLOCK
44	LC75711 CE	O	LC75711E CHIP ENABLE
45	LDC	O	Laser ON/OFF (active low)
46	M DATA	I	Not used
47	C DATA	O	Not used
48	VIDEO CD CLOCK	I/O	Not used
49	SERIAL BUSY	I/O	Serial BUSY signal I/O
50	SERIAL DATA	I/O	Serial DATA signal I/O
51	MOVE M (+)	O	Motor moving output
52	MOVE M (-)	O	Motor moving output
53	SER-PAR INPUT1	I	TC74HC165AF (IC13) DATA
54	MECHA LED	O	Mechanism LED on/off (H : ON, L : OFF)
55	LOADING M (+)	O	Motor moving output
56	LOADING M (-)	O	Motor moving output
57	AD0	I/O	SRAM I/F
58	AD1	I/O	SRAM I/F
59	AD2	I/O	SRAM I/F
60	AD3	I/O	SRAM I/F
61	AD4	I/O	SRAM I/F
62	AD5	I/O	SRAM I/F
63	AD6	I/O	SRAM I/F
64	AD7	I/O	SRAM I/F
65	A8	O	SRAM I/F
66	A9	O	SRAM I/F
67	A10	O	SRAM I/F
68	A11	O	SRAM I/F
69	A12	O	SRAM I/F
70	A13	O	SRAM I/F
71	VSS	-	GND
72	VIDEO SEL	O	Video-out switch
73	MECHA SENS1	I	Disc address count pulse
74	DAC SEL	O	DAC input signal (H : Video CD, L : CD)
75	AC OFF	I	AC OFF detection (L : detected)
76	XRST	O	CXD2512AQ reset
77	NC	O	Not used
78	$\overline{RD}$	O	SRAM I/F
79	$\overline{WR}$	O	SRAM I/F
80	SRAM CE	O	SRAM chip enable

CIRCUIT DESCRIPTION

No.	Name	I/O	Description
81	ASTB	O	SRAM I/F
82	TC9400 DATA	O	TC9400 DATA
83	TC9400 CLK	O	TC9400 CLOCK
84	SER-PAR INPUT2	I	TC74HC165AF(IC14) DATA
85	SER-PAR CLOCK	O	TC74HC165AF(IC13,14) CLOCK
86	TC9400 LATCH	O	TC9400 LATCH
87	GRSRST	O	CXD2512AQ GRSRST
88	MWE	O	CXD2512AQ time information writing enable signal
89	MRE	I	CXD2512AQ time information reading enable signal
90	QRCK	O	CXD2512AQ time information reading clock
91	QTBC	I	CXD2512AQ time information
92	XQOK	O	CXD2512AQ sub code OK output
93	AM17	I	CXD2512AQ address monitor 17
94	AM18	I	CXD2512AQ address monitor 18
95	AM19	I	CXD2512AQ address monitor 19
96	AM20	I	CXD2512AQ address monitor 20
97	AM21	I	CXD2512AQ address monitor 21
98	XWIH	I	CXD2512AQ DRAM writing prohibition signal
99	XEMP	I	CXD2512AQ DRAM reading prohibition signal
100	SDTO	I	CXD2512AQ serial data output

CIRCUIT DESCRIPTION

2-3 Expander I/O pin description

TC74HC165AF (X32-A/9,IC13)

No.	Name	Description
1	SHIFT/LOAD1	Latch input
2	SER-PAR CLOCK	Serial clock
3	ARM CLAMP	Mechanism arm clamp SW (active low)
4	ARM H.P	Mechanism arm home-position SW (active low)
5	NC	Not used
6	SLT SW	Start limit SW (active low)
7	NC	Not used
8	GND	GND
9	SER-PAR OUT	Serial data output
10	GND	GND
11	MD H.P SW	Mechanism home-position SW (active low)
12	STOC A	Mechanism stocker A SW (active low)
13	STOC B	Mechanism stocker B SW (active low)
14	DOOR SW	Door close SW (active low)
15	GND	GND
16	VCC	Power supply

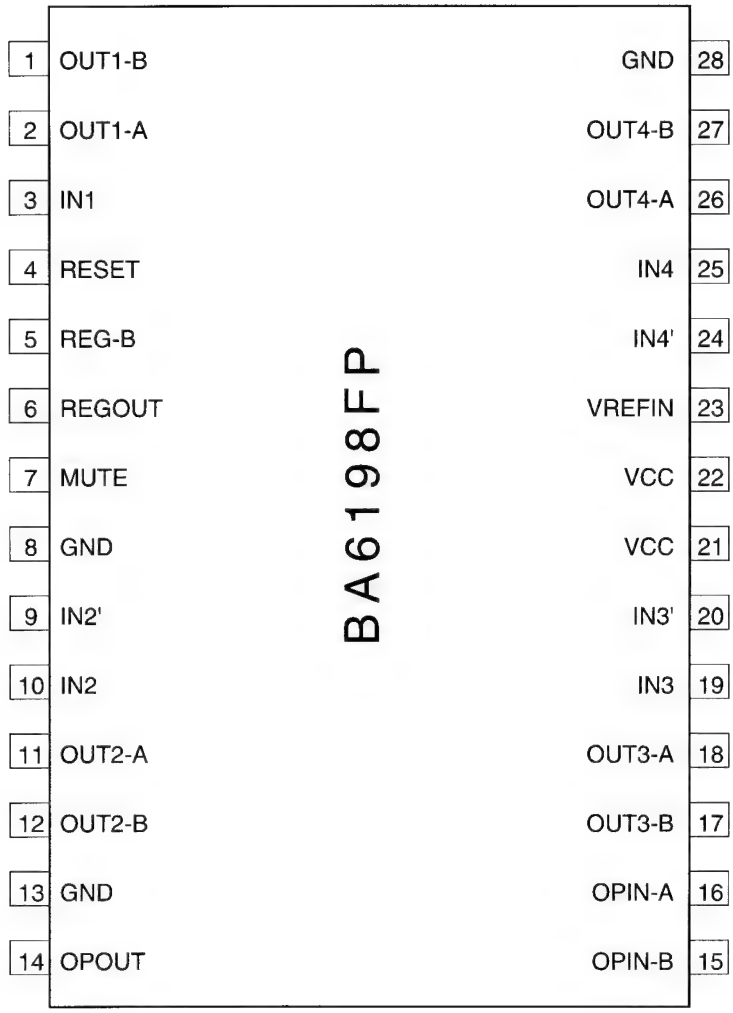
TC74HC165AF (X32-A/9,IC14)

No.	Name	Description
1	SHIFT/LOAD2	Latch input
2	SER-PAR CLOCK	Serial clock
3	GFS	CXD2500 GFS
4	FOK	CXA1372 FOK
5	NORMAL ON	Normal/continuous SW (H : Normal)
6	NC	Not used (Connected to VSS)
7	NC	Not used
8	GND	GND
9	SER-PAR OUT	Serial data output
10	GND	GND
11	8/16 BIT	8/16 bit switch (H : 16 bit L : 8 bit)
12	VIDEO CD IN	Video CD adaptor in/out (H=Video CD ADP.IN)
13	SLIDE SW0	Remote control mode SW (No.1 = H /No.2 = H/No.3 = L)
14	SLIDE SW1	Remote control mode SW (No.1 = L /No.2 = H/No.3 = H)
15	GND	GND
16	VCC	Power supply

CIRCUIT DESCRIPTION

3. BTL Driver : BA6198FP (X32- A/9, IC3)

3-1 Pin layout



3-2 Pin description

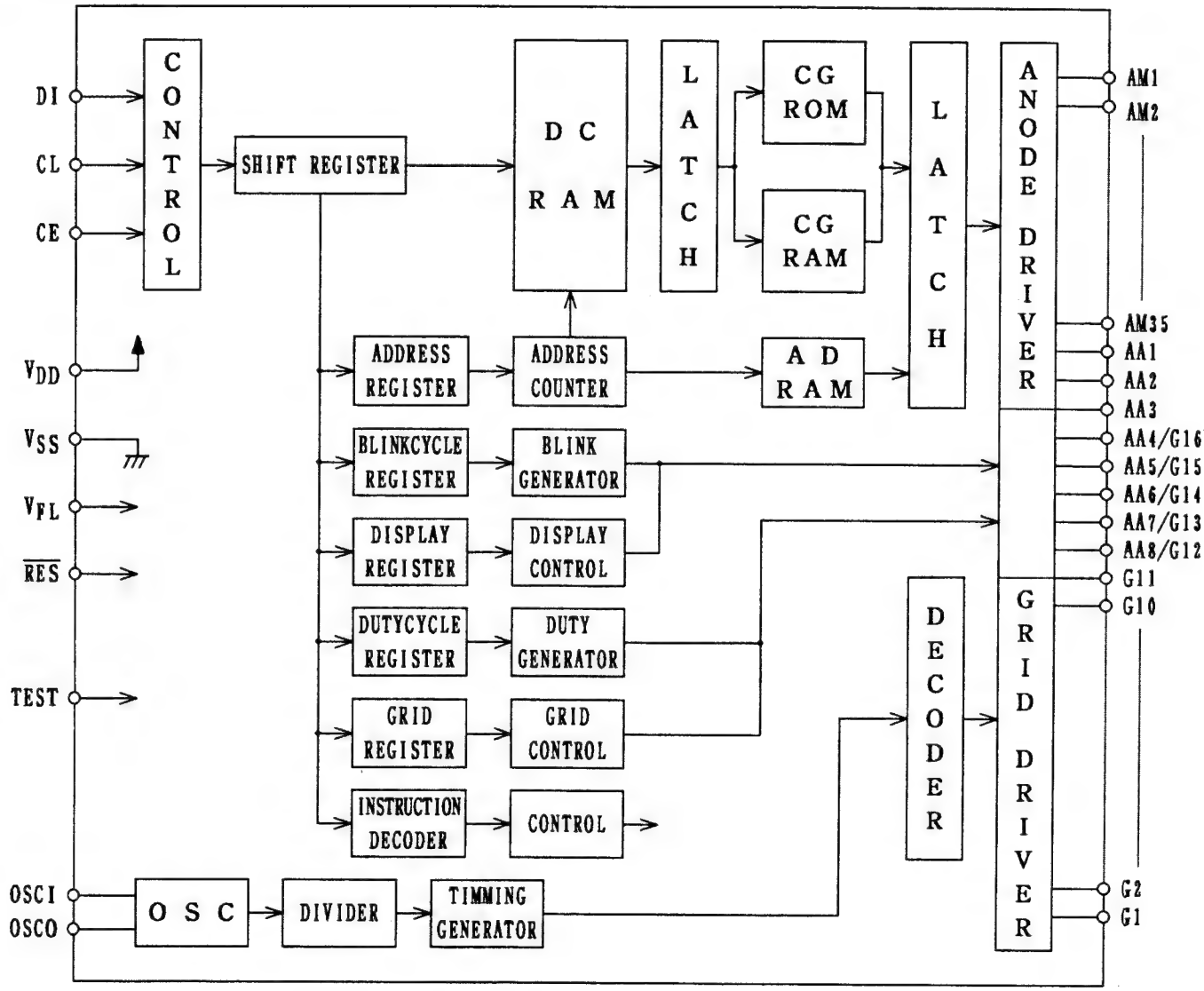
No.	Name	Description	No.	Name	Description
1	OUT1-B	CH1 negative output terminal	15	OPIN-B	OP. amp. (-) input terminal
2	OUT1-A	CH1 positive output terminal	16	OPIN-A	OP. amp. (+) input terminal
3	IN1	CH1 gain-adjustment input terminal	17	OUT3-B	CH3 negative output terminal
4	RESET	Reset output terminal	18	OUT3-A	CH3 positive output terminal
5	REG-B	External regulator Tr. base connecting terminal	19	IN3	CH3 input terminal
6	REGOUT	External regulator Tr. collector connecting terminal (output)	20	IN3'	CH3 gain-adjustment input terminal
7	MUTE	Mute control terminal	21	VCC	VCC
8	GND	GHD terminal	22	VCC	VCC
9	IN2'	CH2 gain-adjustment input terminal	23	VREFIN	Reference amp. input terminal (bias)
10	IN2	CH2 input terminal	24	IN4'	CH4 gain-adjustment input terminal
11	OUT2-A	CH2 positive output terminal	25	IN4	CH4 input terminal
12	OUT2-B	CH2 negative output terminal	26	OUT4-A	CH4 positive output terminal
13	GND	Sub straight GND	27	OUT4-B	CH4 negative output terminal
14	OPOUT	OP. amp. output	28	GND	Sub straight GND

Note: The positive output and the negative output mean the polarity for the input.
(Input "H" →positive output : "H",negative output : " L")

CIRCUIT DESCRIPTION

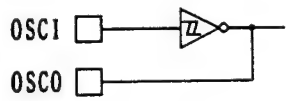
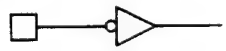
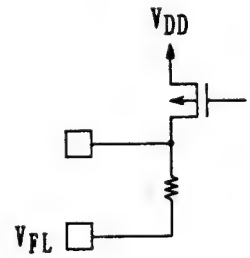
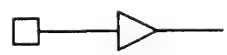
4. FL Controller : LC75711E(X32- C/9,IC26)

4.1 Block diagram



CIRCUIT DESCRIPTION

4-2 Pin description

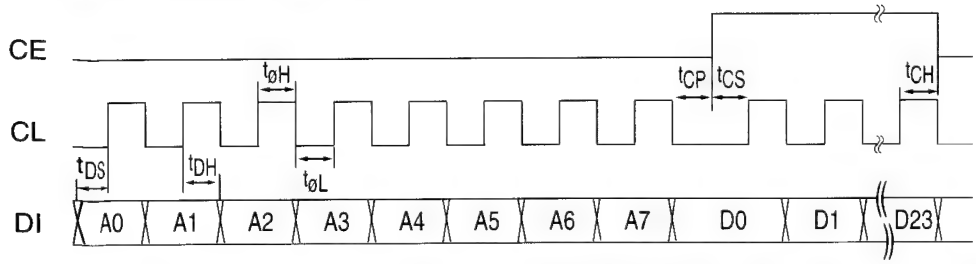
Name	Q'ty	Terminal type	Description
VDD	1		Logic part power terminal, +5 V type.
VSS	1		Logic part power terminal, GND
VFL	1		Driver part power terminal
D I CL CE	1 1 1		Serial data transfer terminal DI: Transfer data CL: Synchronous clock CE: Chip enable
OSCI OSCO	1 1		External oscillator connecting termmal : C and R
$\overline{RES}$	1		System reset input terminal
AM1-AM35 AA1-AA3	38		Anode output terminal; A pulldown resistor incorporated
AA4/G16 AAS/G15 AA6/G14 AA7/G13 AA8/G12	5		Anode/grid output terminal If the 12th to 16th digits are selected as a displayed digit by the"displayed digit specify" command, these terminals will be grid output terminals. A pulldown resistor incorporated
G1~G11	11		Grid output terminal A pulldown resistor incorporated
TEST	1		LSI test terminal Be sure to use it as it is connected to vss.

4-3 Data input

The control serial data consists of 8 bits of address and 24 bits of instruction code. The address is used For chip select when it is connected to the common bus line, which has the following codes:

Address							
A0	A1	A2	A3	A4	A5	A6	A7
1	1	1	0	0	1	1	0

4-4 Timing of DI, CL, and CE



The data will be incorporated at the rising of CL and will be latched at the falling of CE. If the instruction is to be sent from the microprocessor, it is necessary to set an interval between an instruction and the following instruction to be sufficiently longer than the time required to execute the former instruction.

CIRCUIT DESCRIPTION

4-5 Character table

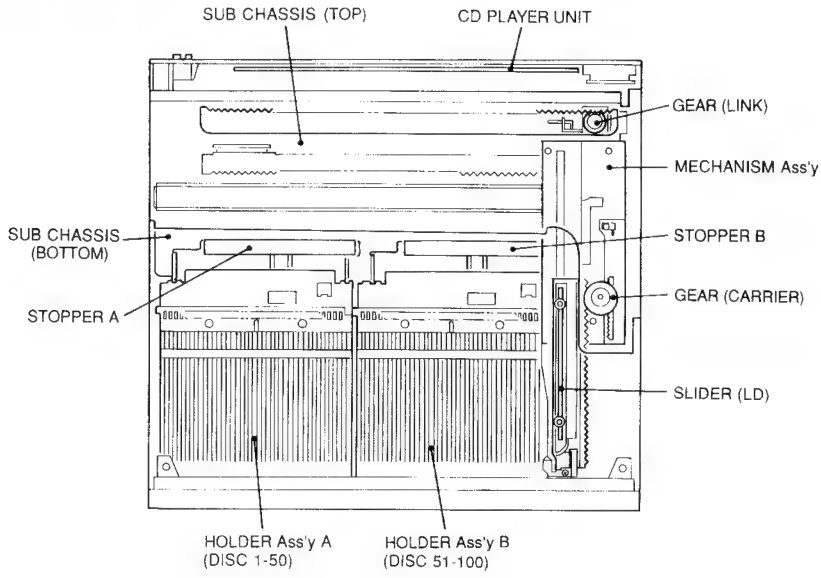
上位4 BIT / 下位 4BIT	MSB 0000	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011
0000 LSB	CG RAM(1)		0	@	P	‖	p	á	â	a̲	O̲
0001	(2)	!	1	A	Q	a	q	à	ä	α	Φ
0010	(3)	"	2	B	R	b	r	é	ê	Ö	ã
0011	(4)	#	3	C	S	c	s	è	ë	Å	å
0100	(5)	¤	4	D	T	d	t	í	î	Ğ	±
0101	(6)	%	5	E	U	e	u	ì	ï	ě	İ
0110	(7)	&	6	F	V	f	v	ó	ô	ň	ń
0111	(8)	'	7	G	W	g	w	ò	ö	Æ	æ
1000		(	8	H	X	h	x	ú	û	π	µ
1001		)	9	I	Y	i	y	ù	ü	Œ	¿
1010		*	:	J	Z	j	z	Ñ	ñ	£	÷
1011		+	;	K	[	k	{	Ç	ç	$	œ
1100		,	<	L	\	l	|	Ş	ş	←	ø
1101		–	=	M	]	m	}	ß	ğ	↑	Ω
1110		.	>	N	^	n	¯	¡	1	→	Σ
1111		/	?	O	_	o	■	IJ	Ä	↓	§

DP-J695/J1070/J2070

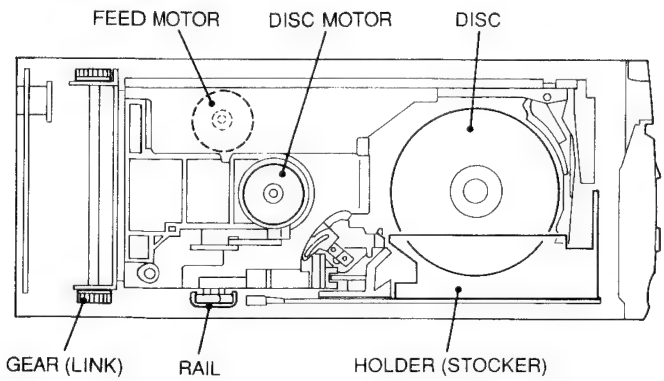
MECHANISM OPERATION DESCRIPTION

1. Description of the key parts

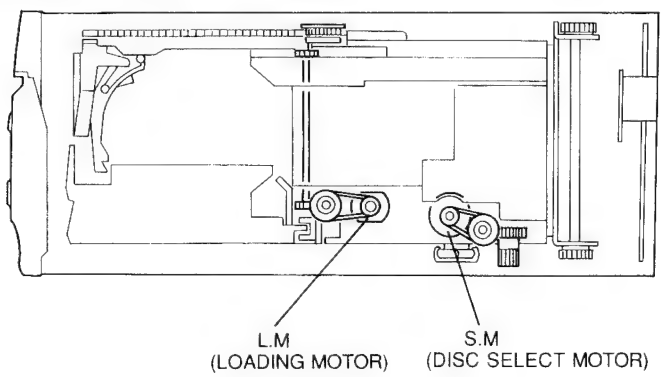
1-1. Top view



1-2. Left side view

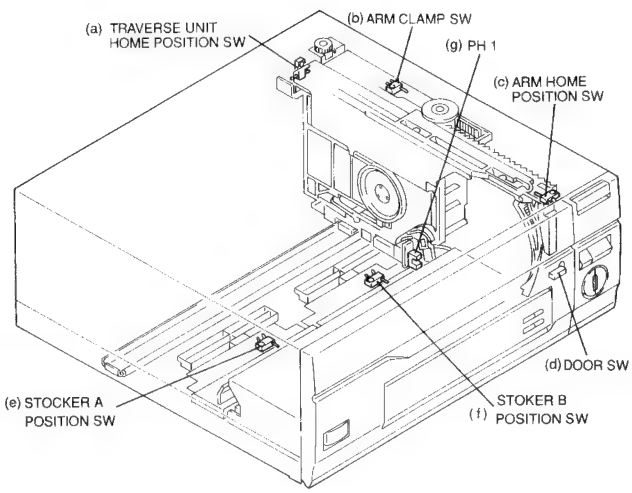


1-3. Right side view



2. Mechanism switch

(a) Traverse unit Home position SW
.....Traverse unit Home postion : SW ON
(b) Arm Clamp SW .....Clamp ON : SW ON
(c) Arm Home position SW
.....Arm Home postion : SW ON
(d) Door SW.....Door close : SW ON
(e) Stocker A position SW.....Stocker A in : SW ON
(f) Stocker B position SW.....Stocker B in : SW ON
(g) PH1 .....Disc position detection



MECHANISM OPERATION DESCRIPTION

3. Operation of the Arm

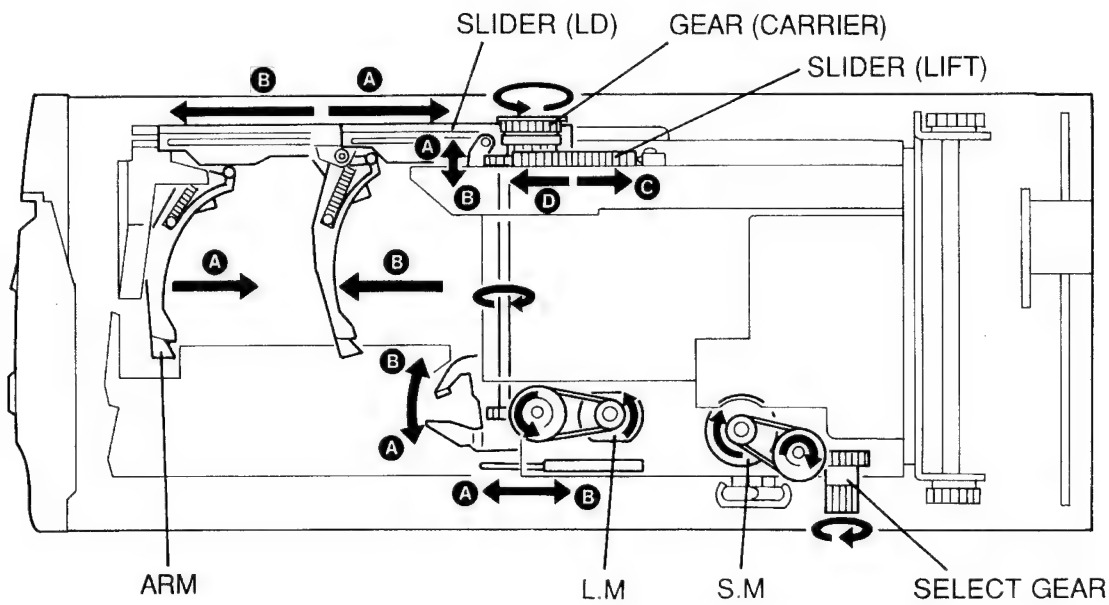
1. If the Loading Motor (LM) rotates in the direction of the arrow in the drawing, the Shaft will rotate, and the Carrier Gear will rotate in the direction of the arrow in the drawing.
2. If the Carrier Gear rotates in the direction of the arrow, the Slider (LD) will be withdrawn in the direction of (A), and the Arm will move in the direction of (A).

4. Traverse unit (MD part) Up / Down

1. If the Slider (LD) is completely withdrawn in the direction of (A) and the LM keeps rotating in the same direction, the Slider (Lift) will be withdrawn in the direction of (C).
2. If the Slider (Lift) is withdrawn in the direction of (C), the Traverse unit will go up.
3. If the LM rotates in the reverse direction as shown in the drawing, the Traverse unit will go down.

5. Disc select operation

1. If the Disc select Motor (SM) rotates in the direction of the arrow in the drawing, the Select Gear will rotate in the direction of the arrow in the drawing.
2. If the Select Gear rotates in the direction of the arrow in the drawing, the Mechanism ass'y will move to the left (to the side of Disc No. 1).
3. The PH1 (Photo Detector) will count the Disc Number.



* The arrows (A) and (B) in the drawing means the following :

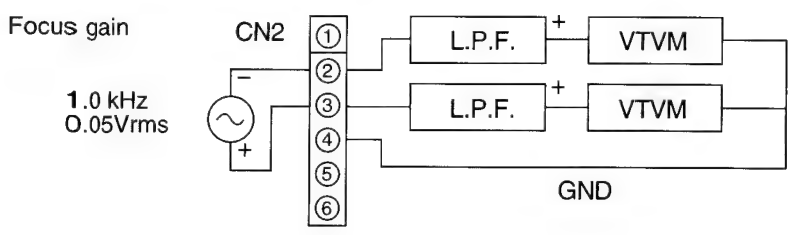
(a) If the LM rotates in the direction as shown in the drawing, it means the motion in the direction of the arrow (A); and
(b) If the LM rotates in the reverse direction as shown in the drawing, it means the motion in the the direction of the arrow (B).

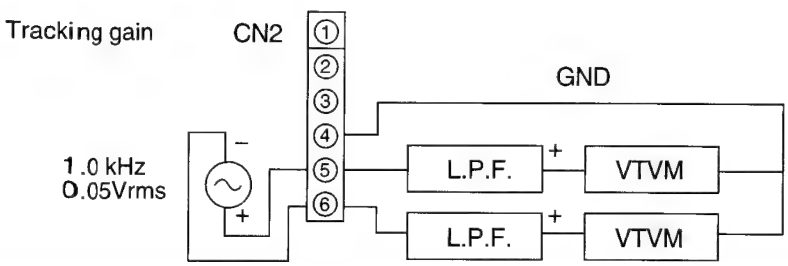
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1. With pressing the FF key(►►), turn the power on to enter the test mode. 2. Set the Test disc to Disc NO. 100.							
1	FOCUS ERROR	Test disc Type 4	Connect an oscilloscope as follows. CH1:RF (CN2-1) CH2:FE (CN2-2)	Press the PLAY key . Confirm that the display is "05".	FE BALANCE VR3	Optimum eye pattern	(b) or (d)
2	TRACKING ERROR	Test disc Type 4	Connect an oscilloscope as follows. CH1:RF (CN2-1) CH2:TE (CN2-6)	Press the DOWN key (I◄◄). Confirm that the display is "03".	TE BALANCE VR4	Symmetry between upper and lower	(c)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0 kHz, 0.05Vrms to CN2 pin 2-3.	Connect a LPF to CN2 pin 2-3 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	FOCUS GAIN VR1	Two VTVMs should read the same value.	(e)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0 kHz, 0.05Vrms to CN2 pin 5-6.	Connect a LPF to CN2 pin 5-6 to which connect an oscilloscope or AC voltmeters.	Press the PLAY key . Confirm that the display is "05".	TRACKING GAIN VR2	Two VTVMs should read the same value.	(e)

Note:
Type 4 disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390 pF or so.
Step 1 ~ 4 are in Test Mode.

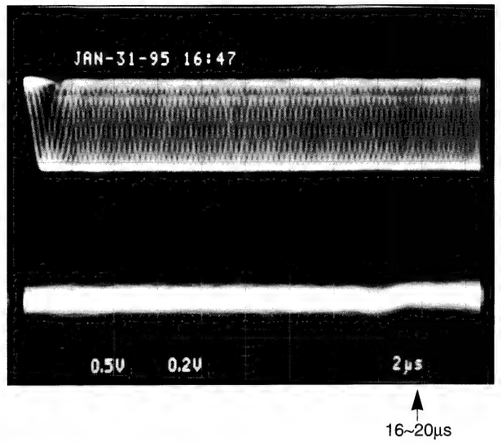
(e) Focus Gain, Tracking Gain





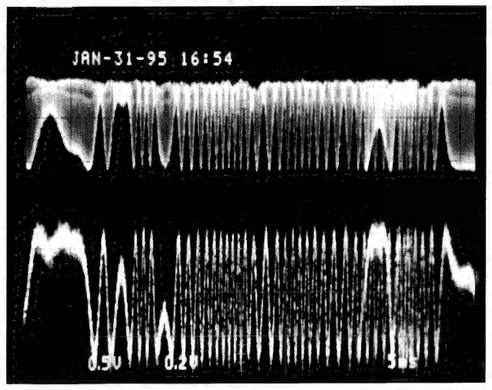
ADJUSTMENT

FIG. (b)



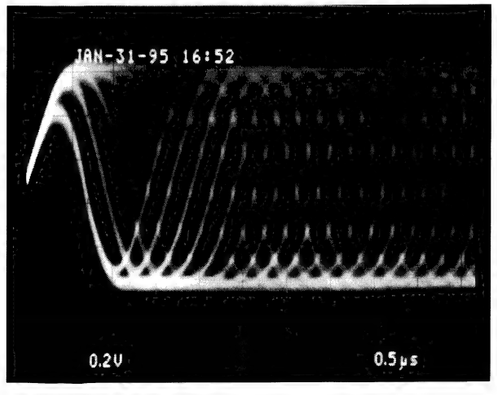
- RF signal and TE signal in test mode (PLAY).
- If the diffraction grating has been adjusted correctly, the influence of triggering is observed on the TE waveform of approx. 16~20µs from RF signal trigger point, in the form of a projection.

FIG. (c)



- RF signal and TE signal in test mode (Focusing servo ON / Tracking servo OFF). (Disc Type 4)
- Adjust TE signal so that the waveform is symmetrical in relation to VC. (TE BALANCE)

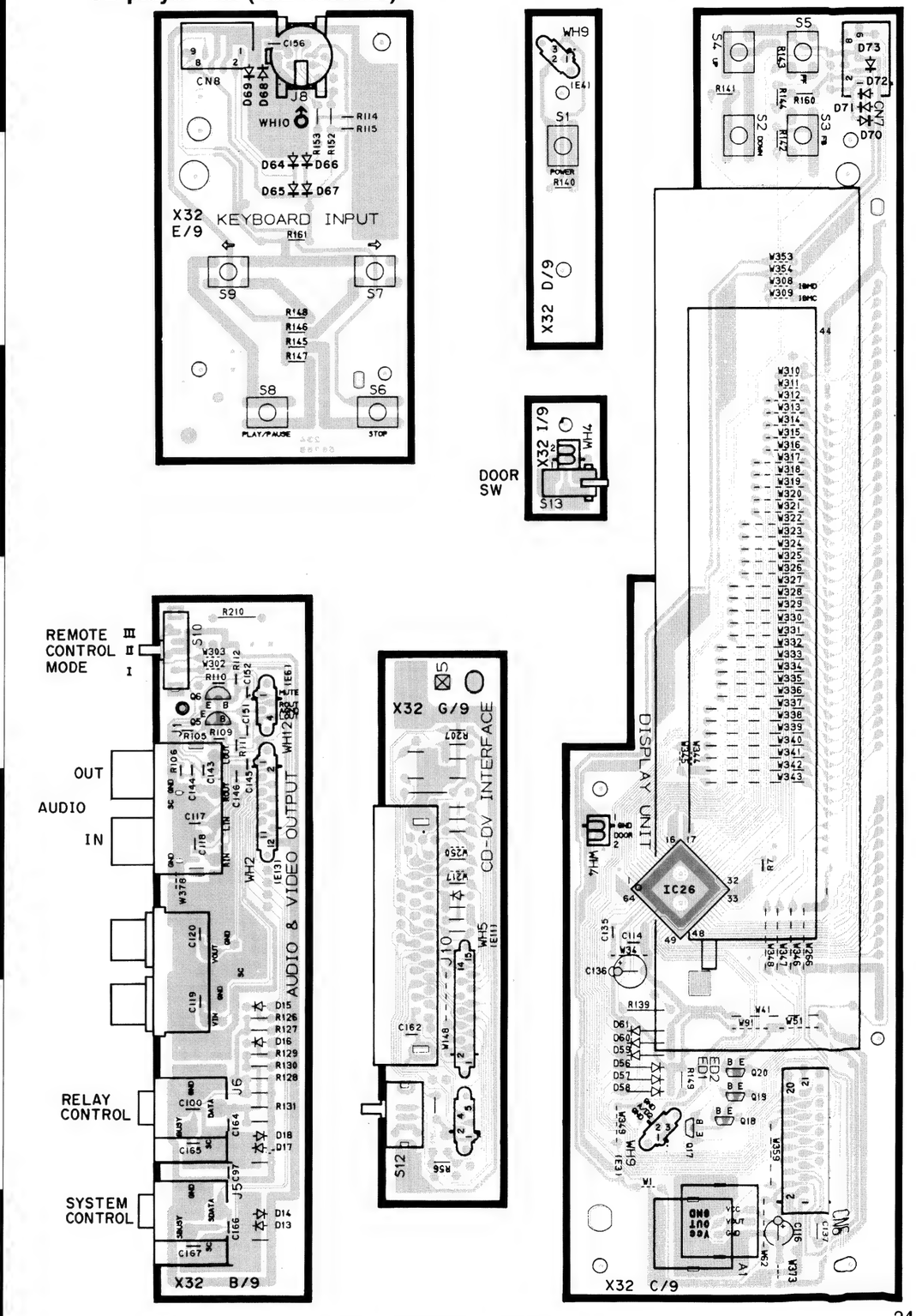
FIG. (d)



- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly. (FE BALANCE)

PC BOARD (COMPONENT SIDE VIEW)

CD player unit (X32-3050-XX)



Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)

CD player unit(X32-3050-XX)

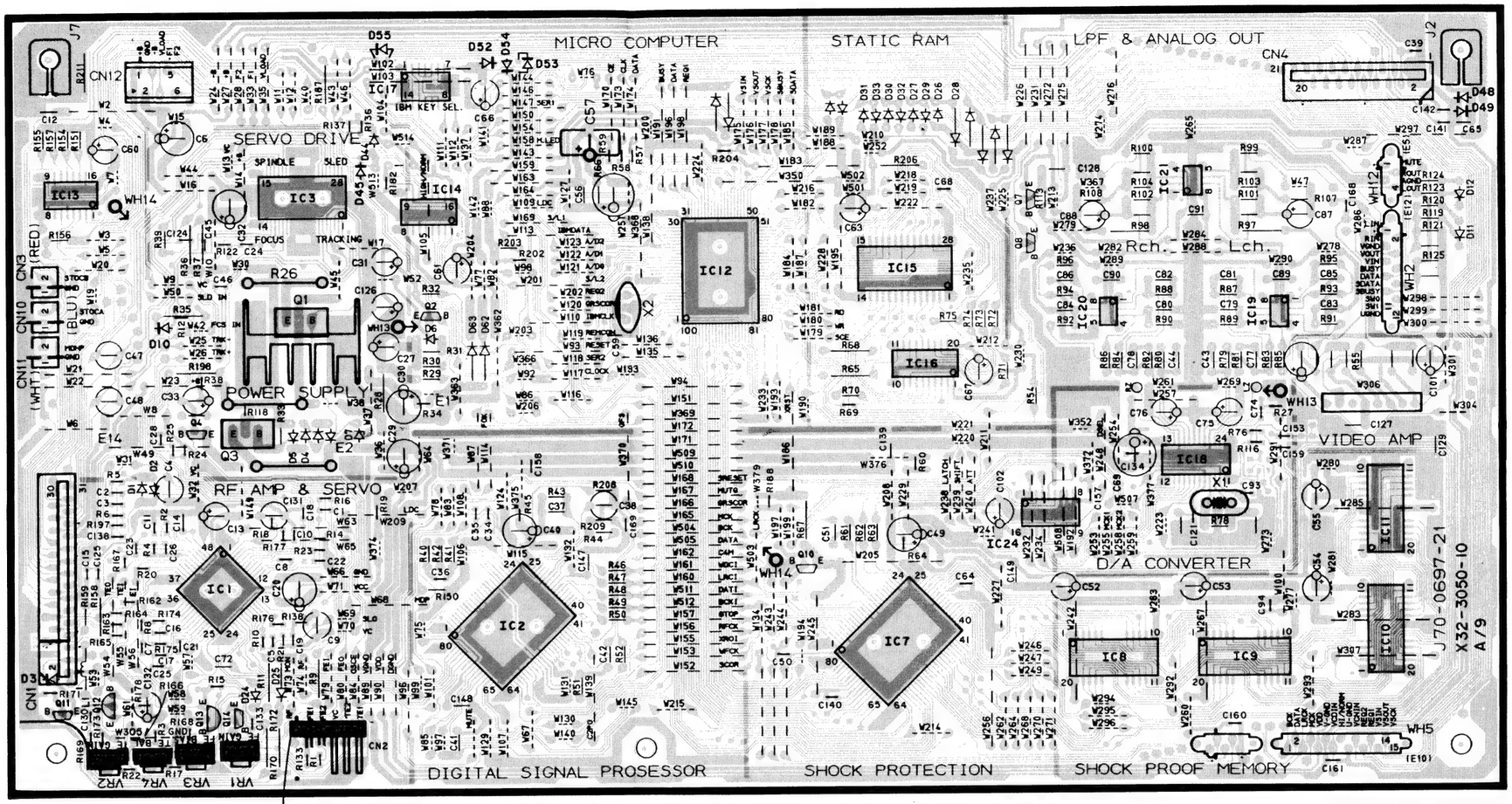
10 : DP-J2070 K,P,X,T,E,G

21 : DP-J2070 Y,M

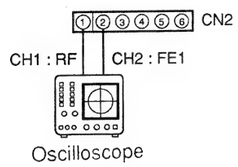
11 : DP-J695/J1070 K,R,P,X

22 : DP-J695/J1070 Y,M

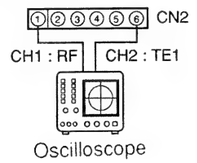
MECHANISM(X92-2050-10)



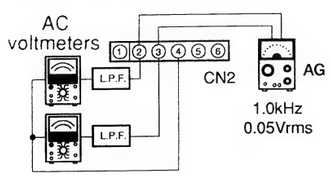
Focus error : Optimum eye pattern



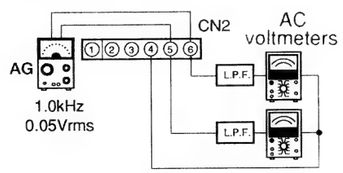
Tracking error : Symmetry between upper and lower

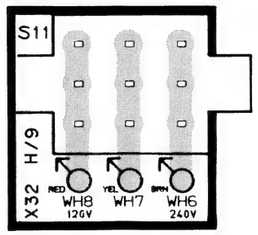


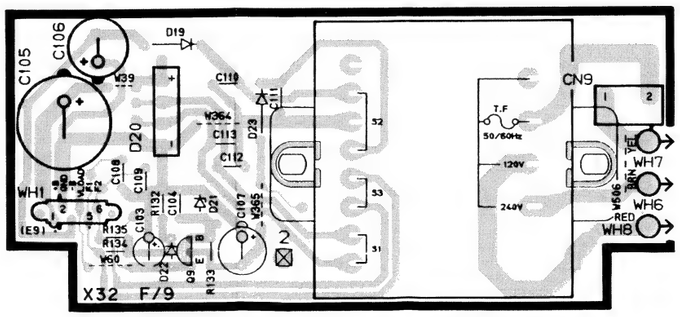
Focus gain : Two VTVMs should read the same value.

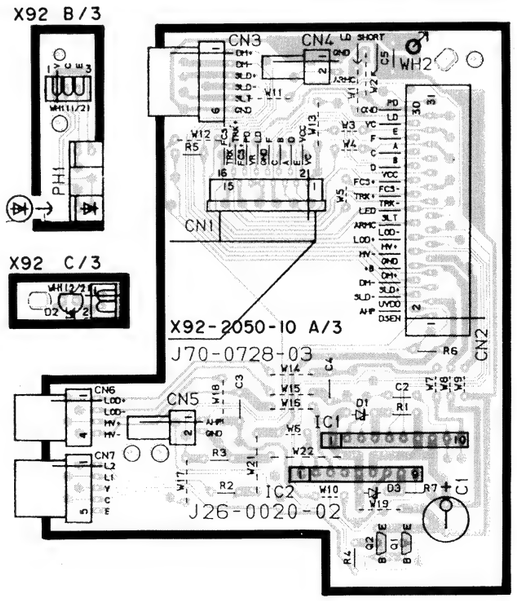


Tracking gain : Two VTVMs should read the same value.

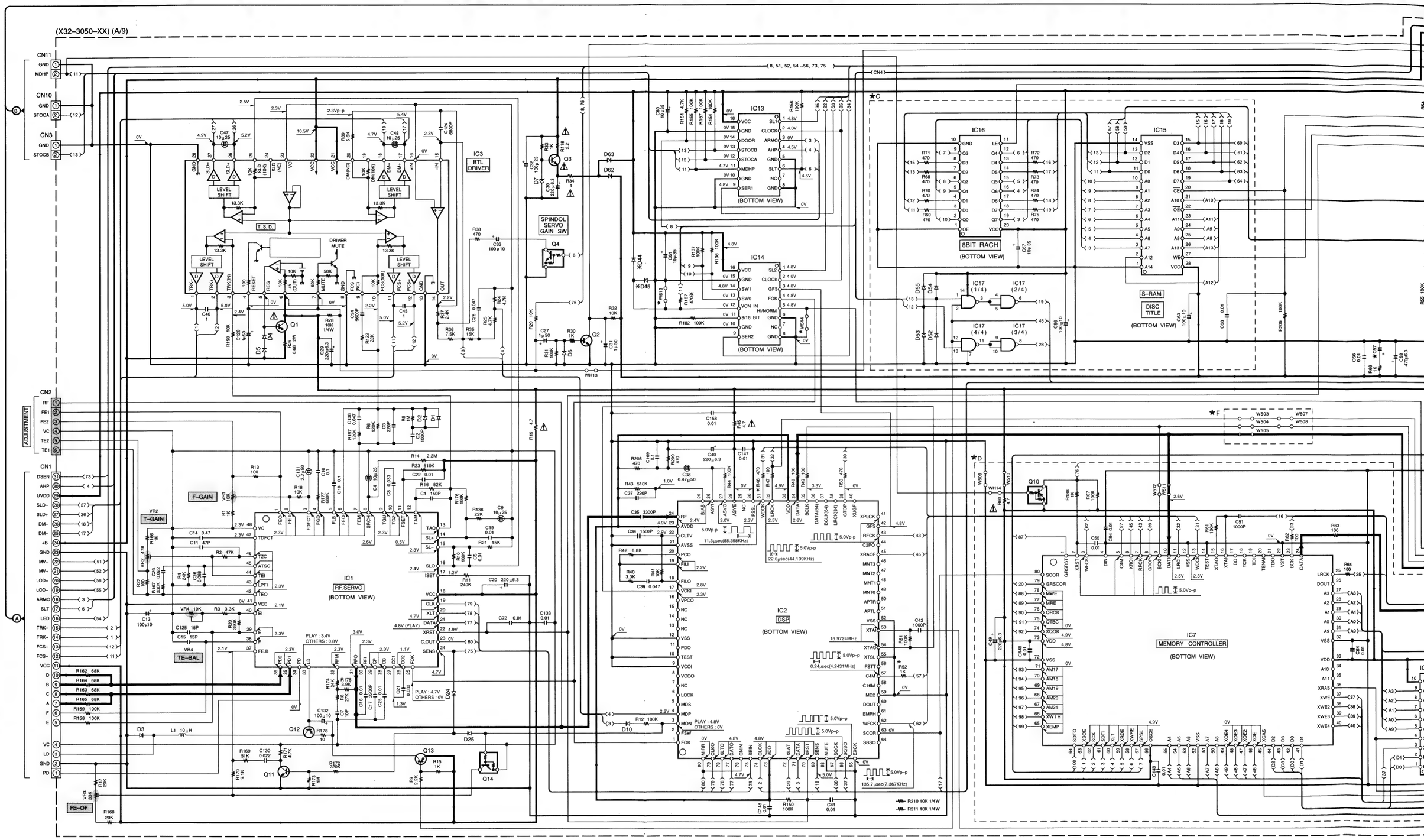




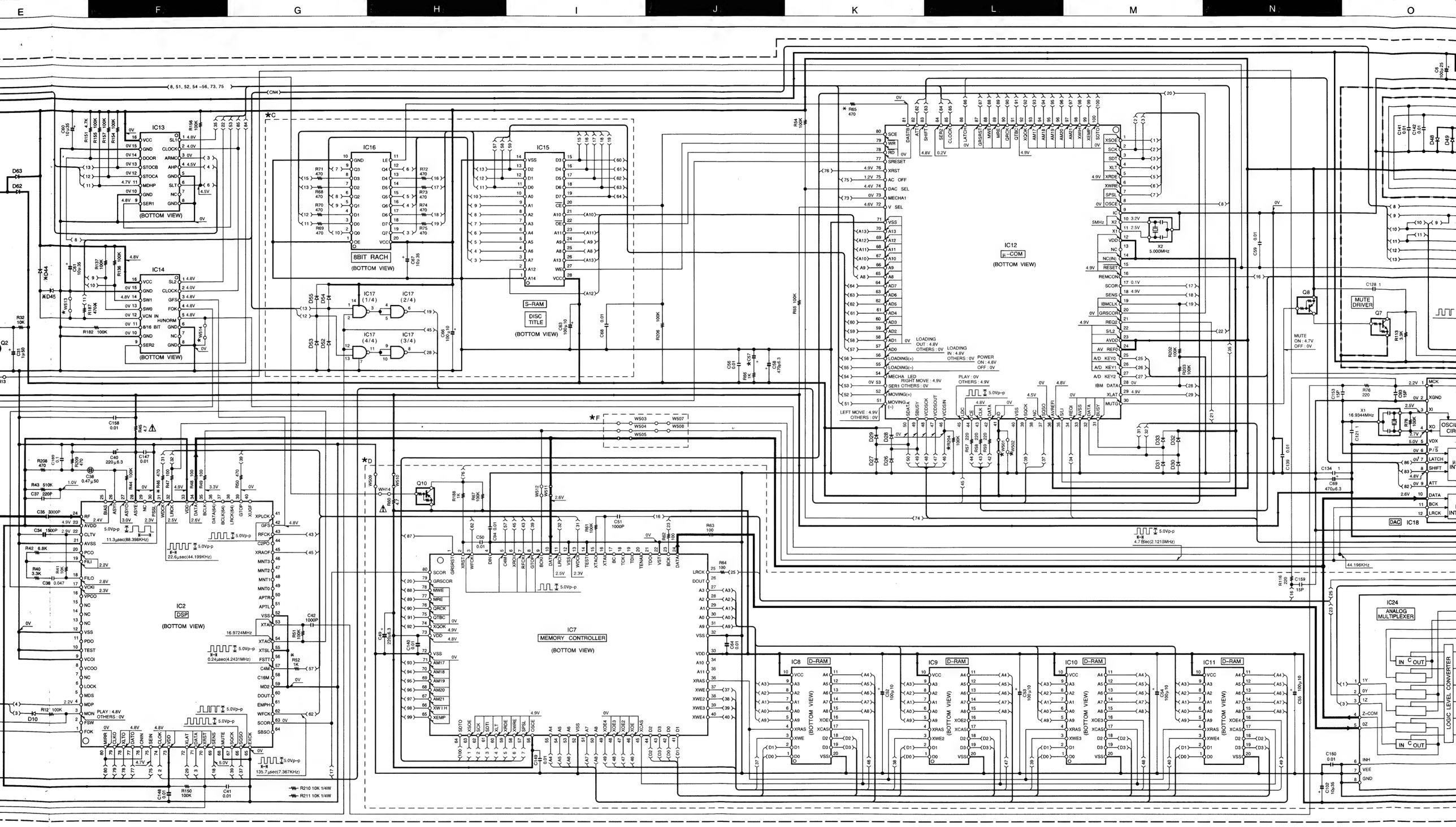




Refer to the schematic diagram for the value of resistors and capacitors.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is retuned to the customer.



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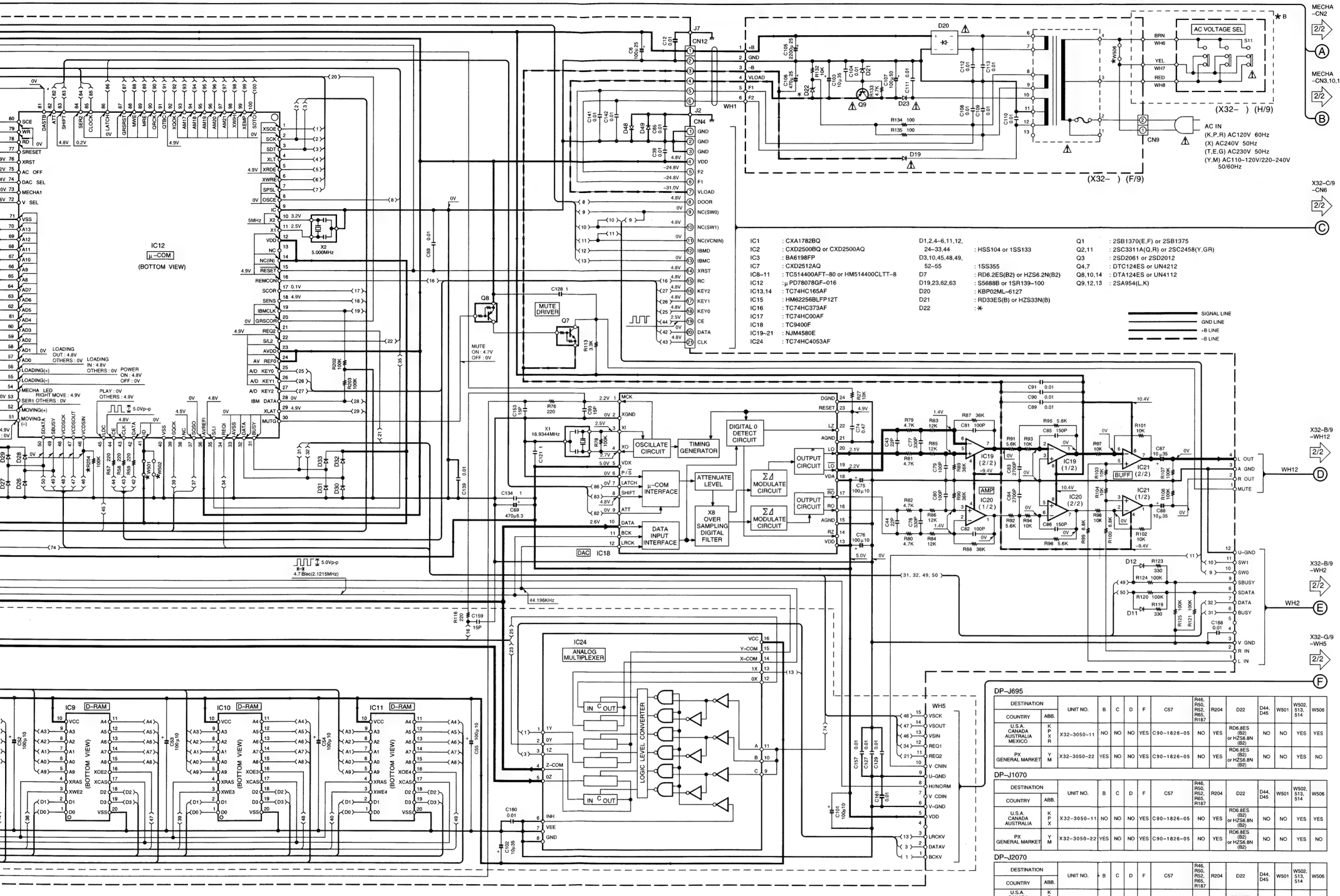
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



DP–J695

DESTINATION	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R65, R187	R204	D22	D44, D45	W501	W502, 513, 514	W506
COUNTRY ABB.													
U.S.A. CANADA AUSTRALIA MEXICO K P X R	X32–3050–11	NO	NO	NO	YES	C90–1826–05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO	NO	YES	YES
PX GENERAL MARKET Y M	X32–3050–22	YES	NO	NO	YES	C90–1826–05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO	NO	YES	NO

DP–J1070

DESTINATION	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R65, R187	R204	D22	D44, D45	W501	W502, 513, 514	W506
COUNTRY ABB.													
U.S.A. CANADA AUSTRALIA K P X	X32–3050–11	NO	NO	NO	YES	C90–1826–05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO	NO	YES	YES
PX GENERAL MARKET Y M	X32–3050–22	YES	NO	NO	YES	C90–1826–05	NO	YES	RD6.8ES (B2) or HZS6.8N (B2)	NO	NO	YES	NO

DP–J2070

DESTINATION	UNIT NO.	B	C	D	F	C57	R46, R50, R52, R65, R187	R204	D22	D44, D45	W501	W502, 513, 514	W506
COUNTRY ABB.													
U.S.A. CANADA AUSTRALIA U.K. EUROPE GERMANY K P X T E G	X32–3050–10	NO	YES	YES	NO	C90–2192–05	YES	NO	RD8.2ES (B2) or HZS8.2N (B2)	YES	YES	NO	YES
PX GENERAL MARKET Y M	X32–3050–21	YES	YES	YES	NO	C90–2192–05	YES	NO	RD8.2ES (B2) or HZS8.2N (B2)	YES	YES	NO	NO

DP–J695/J1070/J2070 (K) (1/2)

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

DP-J695/J1070/J2070

Y22-4280-11

KENWOOD

MODEL NAME	A	ED1	ED2	Q20	C119, 120
DP–J695 DP–J1070	NO	NO	YES	NO	NO
DP–J2070	YES	YES	NO	YES	YES

MECHA. ASSY (CDM–28)

(X92–2050–10) (A/3)

KSM–213BCM

PICKUP: T25–0041–05
(KSS–213B)

IC1 : LB1641
IC2 : TA8409S

Q1 : DTC124ES or UN4212
Q2 : DTC143TS or UN4216

D1 : RD6.8ES(B) or HZS6.8N(B)
D2 : B30–1012–05
D3 : RD5.6ES(B) or HZS5.6N(B)

(X32–3050–XX) (C/9)

(X32–) (D/9)

(X32–) (I/9)

IC26
(BOTTOM VIEW)
FL CONTROL DRIVER

MODEL NAME	A	ED1	ED2	Q20	C119, 120
DP–J695 DP–J1070	NO	NO	YES	NO	NO
DP–J2070	YES	YES	NO	YES	YES

(X32–3050–XX) (C/9)

★ED2

3G 2G 1G

S16 S15 S14 PGM S13 P.C. S4 I

STANDBY S11 RANDOM S10 REPEAT S12 EDIT S9 S3 II

ONE S8 ALL S7 A S6 B S5 III S2

S17 DISC NO. S8 S16 S33 RELAY S25 TRACK NO. S24 S32 S31

S25 S25 SINGLE TIME S17 TOTAL TIME S17

S1 S6 S5 S14 S15 S13 S22 S23 S21 S30 S29 S31 S3 S4 S11 S12 S19 S20 S27 S28 S2 S10 S9 S18 S33 S26

F1 F1 F1 NP 3G 2G 1G S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 NC NC NP F2 F2 F2

★ED1

16G 15G 14G 13G

S24 S23 S22 BEST SELECTION S25 MUSIC TYPE S26 DISC NAME S26 S21 RANDOM ONE ALL S20 EDIT S18 A S17 B S16 S15 I S14 II S13 III

S29 STANDBY S30 FILE S28 A S27 B

S17 DISC NO. S8 S16 S33 RELAY S25 TRACK NO. S24 S32 S31

S25 S25 SINGLE TIME S17 TOTAL TIME S17

S1 S6 S5 S14 S15 S13 S22 S23 S21 S30 S29 S31 S3 S4 S11 S12 S19 S20 S27 S28 S2 S10 S9 S18 S33 S26

S9 VIDEO CD SEARCH S1 NORMAL S2

S20 S19 S18 S17 S16 / 1 2 3 4 5

S25 S24 S23 S22 S21 / 6 7 8 9 10

S30 S29 S28 S27 S26 / 11 12 13 14 15

16 17 18 19 20 / S35 S34 S33 S32 S31

S31 REPEAT S32 PGM P.C. S33

12G 11G 10G 9G 8G 7G 6G 5G 4G 3G 2G 1G

F1 F1 F1 NP 16G 15G 14G 13G 12G 11G 10G 9G 8G 7G 6G 5G 4G NP NP NP 3G 2G 1G S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 NP F2 F2 F2 F2

1 2 3 4 5 / 6 7 8 9 10 / 11 12 13 14 15 / 16 17 18 19 20 / 21 22 23 24 25 / 26 27 28 29 30 / 31 32 33 34 35

IC26 : LC75711E

Q5,6 : 2SC2878(B)

Q17~20 : DTC113ZS or UN4219

D13~18,56~61 : HSS104 or 1SS133

D64~73 : 1SS355

ED1 : FIP12XM1DA

ED2 : FIP3GM7

SIGNAL LINE

GND LINE

+B LINE

–B LINE

DP–J2070 ONLY

(F)

WH5 1 2 3 4 5 6 7 8 9 10 11

V–VDD V–GND H/I/NORM U–GND VCNIN

S12 R56 100K R207 100K C162 0.01

PLAY DIGITAL ME

(X32–) (G/9) J10

(X32–) (B/9)

C144 220P C143 220P C146 220P C145 220P C118 220P C117 220P

R105 1K R106 1K R112 1K R111 1K

Q6 Q5

C152 0.01 C151 0.01

R109 2.2K R110 2.2K

MUTE

WH12 MUTE ROUT AGND LOUT

(D)

LIN RIN VGND VOUT VIN BUSY DATA SDATA SBUSY SW0 SW1 UGND

(E)

WH2

C120 68P C119 68P C166 220P C167 220P

C97 0.01 D14 D13

D15 R126 330 C165 220P C164 220P R127 100K R128 100K

D16 R129 330 R130 100K R131 100K C100 0.01 D17

S10

I/II/III

REMOTE CONTROL MODE

(X32–) (D/9)

POWER S1 R140 27K (E4) (E3) WH9

(X32–) (I/9)

WH4 (1/2) GND WH4 (2/2) S13

IC2

IN2 VCC OUT2 NC GND VS OUT1 VREF IN1

RIGHT MOVE : 4.8V OTHERS : 0V

LEFT MOVE : 4.8V OTHERS : 0V

R5 10K R6 100K C3 0.1 C5 0.01

CN2

DSEN AHP UVDD SLD– SLD+ DM– DM+ +B GND MV– MV+ LOD+ LOD– ARMC SLT LED TRK– TRK+ FCS– FCS+ VCC D B C A F E VC LD GND PD

C4 0.1 R1 750 R7 1K D1 D3 C1 47 µ 25

LOAD OUT : 6.8V OTHERS : 0V

GND OUT1 P1 VZ IN1 IN2 VCC1 VCC2 P2 OUT2

0V 6.8V 12.0V

C2 0.01

LOAD OUT : 8.2V OTHERS : 0V

LOAD OUT : 4.7V OTHERS : 0V

LOAD IN : 4.7V OTHERS : 0V

LOADING M. DRIVER

IC1

LOAD IN : 6.8V OTHERS : 0V

LOAD IN : 8.2V OTHERS : 5.0V

LAOD IN : 6.8V OTHERS : 0V

W2 W1

LD SHORT

IC26 (BOTTOM VIEW)

FL CONTROL DRIVER

AM1 AM2 AM3 AM4 AM5 AM6 AM7 AM8 AM9 AM10 AM11 AM12 AM13 AM14 AM15 AM16 AM17 AM18 AM19 AM20 AM21 AM22 AM23 AM24 AM25 AM26 AM27 AM28 AM29 AM30 AM31 AM32 AM33 AM34 AM35 NC NC NC G16 G15 G14 G13 G12 G11 G10 G9 G8 G7

D1 CL CE RST VDD OSC1 OSC0 VSS TEST VLOAD G1 G2 G3 G4 G5 G6

4.8V –31.0V R7 330K

D56 D57 D58 D59 D60 D61 R139 10K 1/4W C114 33P C135 0.01 C136 100 µ6.3

0V R149 10K 4.8V –31.0V –24.8V 2.5V

C137 0.01

CN6

CLK DATA CE A/D0 A/D1 A/D2 REMC XRST IBMC IBMD NC NC NC DOOR VLOAD F1 F2 VDD GND GND GND

C116 47 µ 10 4.8V A1 +5V RCI GND

REMOTE CONTROL SENSOR

Q18 Q17 Q19 Q20

S2 R141 3.3K R142 9.1K S4 R143 3.3K R144 9.1K R160 10K

S3 S5 D70 D71 D72 D73

CN7 A/D0 VCC A/D1 GND GND GND GND IBMD IBMC

(X32–) (E/9)

CN8 A/D0 VCC A/D1 GND GND GND GND IBMD IBMC

S6 R145 27K R146 9.1K S8 R147 27K R148 3.3K

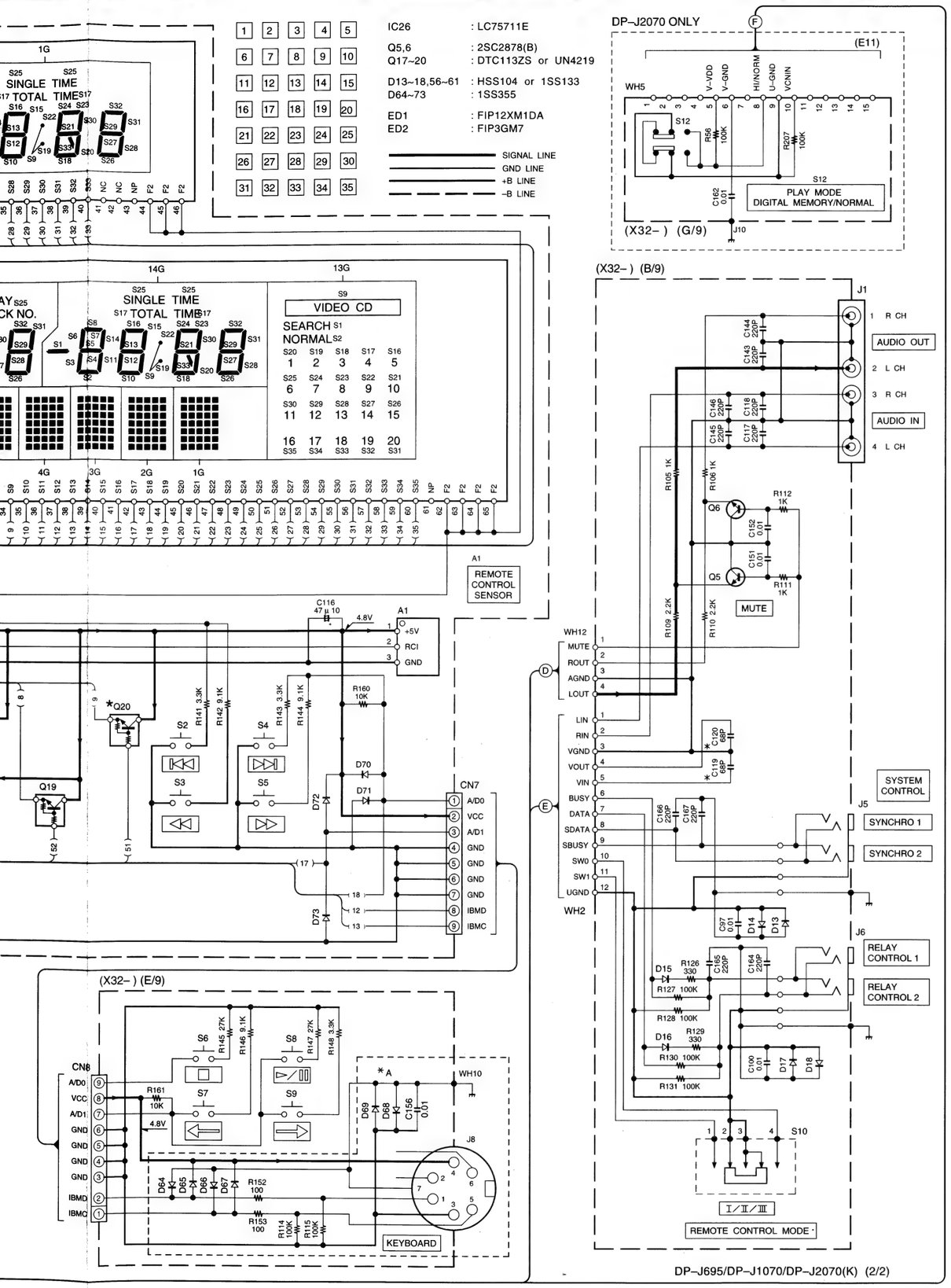
R161 10K S7 S9

★A WH10 D69 D68 C156 0.01

J8

D64 D65 D66 D67 R152 100 R153 100 R114 100K R115 100K

KEYBOARD



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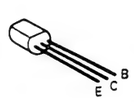
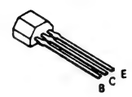
2SA954
2SC2878

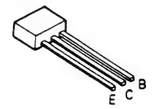


DTA124ES
DTC124ES
DTC143TS
UN4112
2SC2458



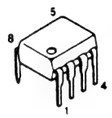
2SB1370
2SD2061

UN4212
UN4216
UN4219
2SC3311A

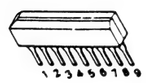


2SB1375
2SD2012

NJM4580E



TA8409S



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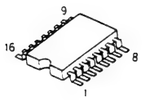

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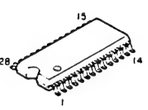

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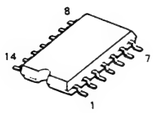
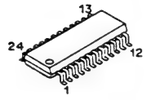
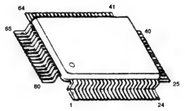


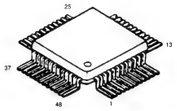
TC9400F



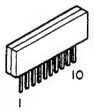
CXD2500AQ
CXD2500BQ
CXD2512AQ



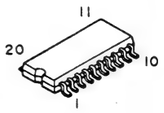
CXA1782BQ



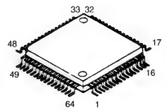
LB1641



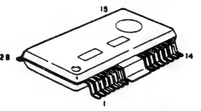
TC74HC373AF



LC75711E



BA6198FP



Y22-4280-11

DP-J695/J1070/J2070

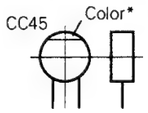
KENWOOD

PARTS DESCRIPTION

CAPACITORS

CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
0 = Multiplier
2 = 2nd number
2 = 1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	–80	–150	–220	–330	–470	–750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = –470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 –20	+80 –20	+100 –0	More than 10μF – 10 ~ +50 Less than 4.7μF –10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	–
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	–
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	–

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

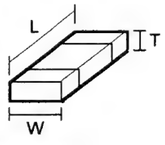
(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Dimension



Dimension (Chip resistor)

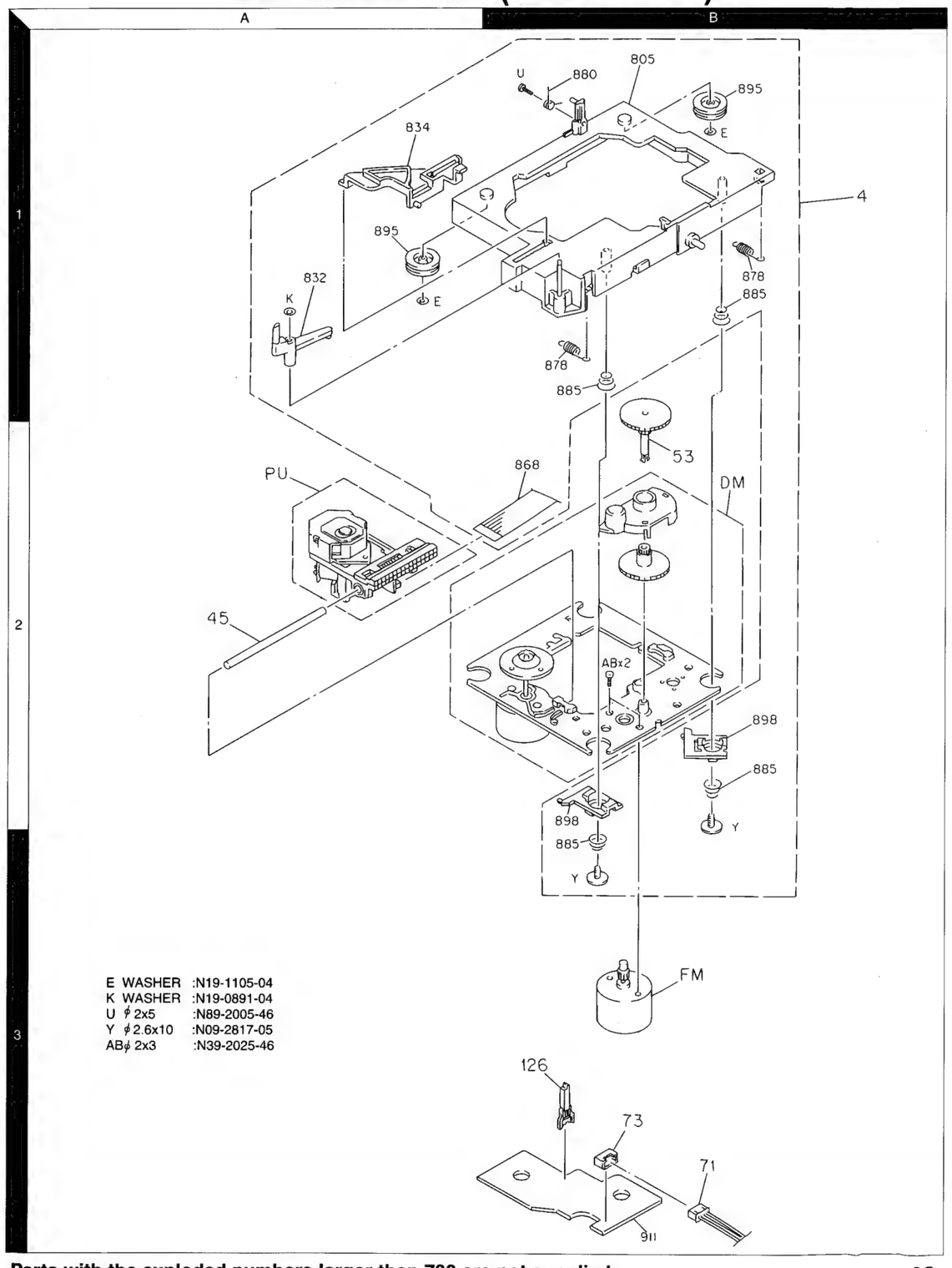
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

DP-J695/J1070/J2070

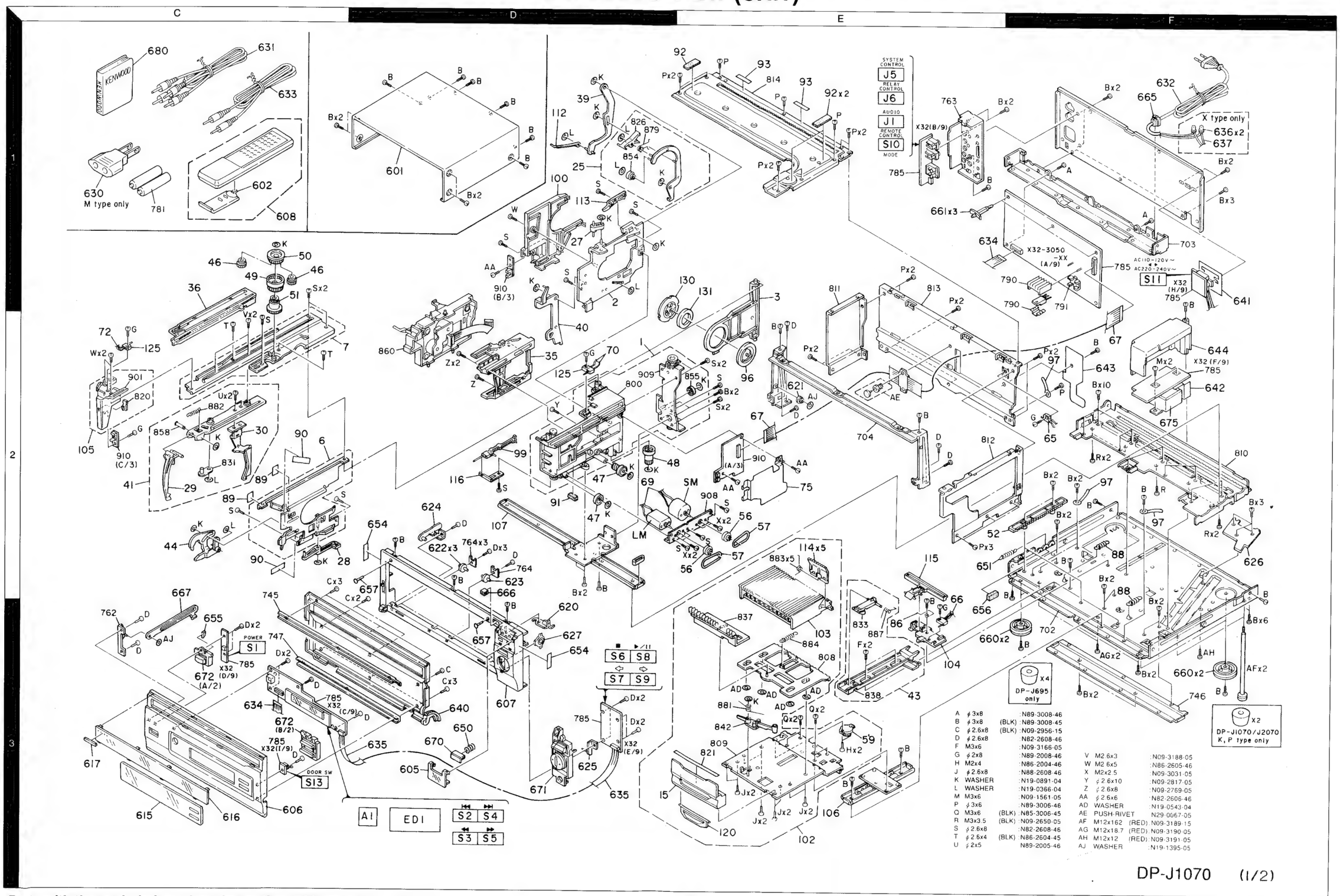
EXPLODED VIEW(MECHANISM)



E WASHER :N19-1105-04
K WASHER :N19-0891-04
U ϕ2x5 :N89-2005-46
Y ϕ2.6x10 :N09-2817-05
ABϕ 2x3 :N39-2025-46

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



DP-J1070 (1/2)

37 **Parts with the exploded numbers larger than 700 are not supplied.**

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Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** *werden nicht geliefert.*

NO.1

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
				DP-J695/J1070/J2070		
601	1D	*	A01-3260-01	METALLIC CABINET		
602	1C	*	A09-0303-08	BATTERY COVER		
605	3D	*	A21-1866-04	DRESSING PANEL		
606	3C	*	A29-0390-21	PANEL (1070/2070)		
606	3C	*	A29-0801-21	PANEL (695)		
607	3D	*	A60-0697-11	PANEL (2070)		
607	3D	*	A60-0698-11	PANEL (1070)		
607	3D	*	A60-0699-11	PANEL (695)		
608	1C	*	A70-1013-15	REMO-CON ASSY (2070) RC-P0201	KPYX	
608	1C	*	A70-1013-15	REMO-CON ASSY (2070) RC-P0201	TEG	
608	1C	*	A70-1014-15	REMO-CON ASSY (695/1070)P0100	KRPYX	
608	1C	*	A70-1040-05	REMO-CON ASSY (2070) RC-P0201	M	
608	1C	*	A70-1041-05	REMO-CON ASSY (695/1070)P0100	M	
615	3C	*	B03-2938-03	DRESSING PLATE (2070)		
615	3C	*	B03-2939-03	DRESSING PLATE (695/1070)		
616	3C	*	B10-2080-12	FRONT GLASS (2070)		
616	3C	*	B10-2081-12	FRONT GLASS (1070)		
616	3C	*	B10-2082-12	FRONT GLASS (695)		
617	3C		B43-0287-04	KENWOOD BADGE (1070/2070)		
-		*	B46-0092-43	WARRANTY CARD	KY	
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	TEG	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (CAUTION UL)	KRY	
-		*	B58-0965-13	CAUTION CARD (TX TYPE PL)	XT	
-		*	B58-0966-13	CAUTION CARD (ELM TYPE PL)	ME	
-		*	B58-0967-03	CAUTION CARD (P TYPE PL)	P	
-		*	B58-0970-13	CAUTION CARD (RG TYPE PL)	RG	
-		*	B58-0992-04	CAUTION CARD (TRANSPORT SCR)		
-		*	B58-0993-04	CAUTION CARD (TRANSPORT SCR)		
-		*	B58-0998-04	CAUTION CARD (8cm CD)		
-		*	B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-1995-10	INST.MANUAL (2070/EN)	TE	
-		*	B60-1995-10	INST.MANUAL (2070/EN)	KPYMX	
-		*	B60-1996-00	INST.MANUAL (2070/FR)	PE	
-		*	B60-1997-00	INST.MANUAL (2070/G)	EG	
-		*	B60-1998-00	INST.MANUAL (2070/D/I)	E	
-		*	B60-1999-00	INST.MANUAL (2070/SP)	ME	
-		*	B60-2000-00	INST.MANUAL (2070/C)	M	
-		*	B60-2001-00	INST.MANUAL (2070/TAIWAN)	M	
-		*	B60-2217-10	INST.MANUAL (695/1070/EN)		
-		*	B60-2218-00	INST.MANUAL (695/1070/FR)	P	
-		*	B60-2219-00	INST.MANUAL (695/1070/SP)	MR	
-		*	B60-2220-00	INST.MANUAL (695/1070/C)	M	
-		*	B60-2221-00	INST.MANUAL (695/1070/TAIWAN)	M	
620	3D	*	D10-3516-04	LEVER		
621	2E	*	D14-0371-04	ROLLER		
622	2D	*	D14-0373-04	ROLLER (BLACK)		
623	3D		D14-0324-04	ROLLER (GRAY)		
624	2D	*	D19-0288-04	PIN (L)		

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NO.2

Ref. No.	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
625	3D	*	D19-0289-04	PIN (R)		
626	2F	*	D32-0347-04	STOPPER		
627	3D		D39-0314-05	DAMPER		
⚠ 630	1C		E03-0115-05	AC PLUG ADAPTER	M	
631	1C		E30-0505-05	AUDIO CORD		
⚠ 632	1F		E30-2592-15	AC POWER CORD	MEG	
⚠ 632	1F		E30-2605-05	AC POWER CORD	Y	
⚠ 632	1F		E30-2650-05	AC POWER CORD	KRP	
⚠ 632	1F		E30-2714-05	AC POWER CORD	X	
⚠ 632	1F		E30-2721-05	AC POWER CORD	T	
633	1C		E30-2733-05	CORD WITH PLUG		
634	1F,3C	*	E35-1078-05	FLAT CABLE (21P X32 CN4-CN6)		
635	3D	*	E35-1079-05	FLAT CABLE (9P X32 CN7-CN8)		
636	1F	*	E29-0163-05	WIRE CONNECTION CAP	X	
637	1F	*	E30-2814-05	CORD WITH CONNECTOR	X	
640	3D	*	F07-0750-21	COVER		
641	1F	*	F20-1423-04	INSULATING BOARD (VOLTAGE SEL)	YM	
642	2F	*	F20-1444-04	INSULATING BOARD (TRANS)	MXTEG	
643	2F	*	F20-1461-04	INSULATING BOARD (S-CHASSIS R)	YM	
⚠ 644	2F	*	F29-0113-12	INSULATING COVER		
650	3D	*	G01-3831-04	COMPRESSION SPRING (OPEN)		
651	2F	*	G09-0643-14	SPRING (2070)		
651	2F	*	G09-0644-14	SPRING (695/1070)		
654	2D,3D	*	G10-0419-04	NON-WOVEN FABRIC (PANEL)		
655	3C	*	G11-2238-14	CUSHION (POWER)		
656	3F	*	G11-2244-14	CUSHION (DOOR SPRING)		
657	3D		G13-0182-04	CUSHION (DOOR)		
		*	H50-1584-04	ITEM CARTON CASE (2070)	KPYMX	
		*	H50-1584-04	ITEM CARTON CASE (2070)	EG	
		*	H50-1585-04	ITEM CARTON CASE (2070)	T	
		*	H50-1586-04	ITEM CARTON CASE (1070)		
		*	H50-1587-04	ITEM CARTON CASE (695)		
-		*	H10-7090-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-7091-12	POLYSTYRENE FOAMED FIXTURE (R)		
-		*	H12-2245-04	PACKING FIXTURE	T	
-		*	H12-2260-04	PACKING FIXTURE		
-		*	H13-0203-14	CARTON BOARD	X	
-			H20-0580-04	PROTECTION COVER	M	
-		*	H21-0321-24	PROTECTION SHEET		
-		*	H21-0322-04	PROTECTION SHEET		
-		*	H21-0323-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KRPYMX	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EG	
-			H25-0383-04	PROTECTION BAG (SET)	KRPYX	
-			H25-0383-04	PROTECTION BAG (SET)	TEG	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
660	3F		J02-1013-05	FOOT (695)		
660	3F		J02-1013-05	FOOT (REAR) (1070/2070)	KP	
660	3F		J02-1024-05	FOOT (1070/2070)		
661	1E		J19-3328-15	UNIT HOLDER		
⚠ 665	1F		J42-0083-05	POWER CORD BUSHING		
666	3D	*	J52-0032-05	MAGNET CATCH		

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NO.3

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
667	3C	*	J54-0074-14	STAY		
-		*	J11-0807-14	CLAMPER		
-		*	J11-0810-05	WIRE CLAMPER (AC CORD)	KRPX	
-		*	J11-0810-05	WIRE CLAMPER (AC CORD)	TEG	
-			J61-0307-05	WIRE BAND	X	
670	3D	*	K27-2165-04	KNOB (OPEN)		
671	3D	*	K29-6084-03	KNOB (PLAY/STOP)		
672	3C	*	K29-6134-03	KNOB (POWER/SKIP)		
⚠ 675	2F	*	L07-1964-05	POWER TRANSFORMER (2070)	KP	
⚠ 675	2F	*	L07-1965-05	POWER TRANSFORMER (2070)	YM	
⚠ 675	2F	*	L07-1996-05	POWER TRANSFORMER (695/1070)	KRP	
⚠ 675	2F	*	L07-1997-05	POWER TRANSFORMER (695/1070)	YM	
⚠ 675	2F	*	L07-1998-05	POWER TRANSFORMER (695/1070)	X	
⚠ 675	2F	*	L07-1999-05	POWER TRANSFORMER (2070)	XTEG	
AF	2F,3F	*	N09-3189-15	STEPPED SCREW RED (M12X162)		
AG	2F,3F	*	N09-3190-05	STEPPED SCREW RED (M12X18.7)		
AH	2F,3F	*	N09-3191-05	STEPPED SCREW RED (M12X12)		
AJ	3C	*	N19-1395-05	FLAT WASHER		
C	3C,3D	*	N09-2956-15	DRESSED SCREW BLACK (M2.6X8)		
M	2F		N09-1561-05	TAPTITE SCREW (3X6,+)		
680	1C	*	W01-0879-05	CARD HOLDER		

CD PLAYER UNIT (X32-3050-XX)

C1			CC73FSL1H151J	CHIP C	150PF	J		
C2			CK73FB1H102K	CHIP C	1000PF	K		
C3			CC73FSL1H221J	CHIP C	220PF	J		
C4			CE04HW1E100M	NP-ELEC	10UF	25WV		
C5			CK73FB1H103K	CHIP C	0.010UF	K		
C6			CE04KW1E101M	ELECTRO	100UF	25WV		
C7			CC73FSL1H100D	CHIP C	10PF	D		
C8			CK73FB1H333K	CHIP C	0.033UF	K		
C9			CE04HW1E100M	NP-ELEC	10UF	25WV		
C10			CK73FB1E104K	CHIP C	0.10UF	K		
C11			CC73FSL1H470J	CHIP C	47PF	J		
C12			CK73FB1H103K	CHIP C	0.010UF	K		
C13			CE04KW1A101M	ELECTRO	100UF	10WV		
C14			CK73EB1C474K	CHIP C	0.47UF	K		
C15			CC73FSL1H150J	CHIP C	15PF	J		
C16			CK73FB1H103K	CHIP C	0.010UF	K		
C17			CK73FB1H222K	CHIP C	2200PF	K		
C18			CK73FB1E104K	CHIP C	0.10UF	K		
C19			CK73FB1H103K	CHIP C	0.010UF	K		
C20			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C21			CK73FB1H333K	CHIP C	0.033UF	K		
C22			CK73FB1H103K	CHIP C	0.010UF	K		
C23			CK73FB1H223K	CHIP C	0.022UF	K		
C24			CK73FB1H562K	CHIP C	5600PF	K		
C25			CK73FB1H103K	CHIP C	0.010UF	K		
C26			CK73FB1H683K	CHIP C	0.068UF	K		
C27			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C28			CK73FB1H473K	CHIP C	0.047UF	K		
C29,30			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C31			CE04KW1H010M	ELECTRO	1.0UF	50WV		

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NO.4

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
C32			CE04KW1E101M	ELECTRO	100UF	25WV		
C33			CE04KW1A101M	ELECTRO	100UF	10WV		
C34			CK73FB1H152K	CHIP C	1500PF	K		
C35			CK73FB1H332K	CHIP C	3300PF	K		
C36			CK73FB1H473K	CHIP C	0.047UF	K		
C37			CC45FSL1H221J	CERAMIC	220PF	J		
C38			CE04HW1HR47M	NP-ELEC	0.47UF	50WV		
C39			CK73FB1H103K	CHIP C	0.010UF	K		
C40			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C41			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C42			CK45FB1H102K	CERAMIC	1000PF	K		
C43,44			CC45FSL1H220J	CERAMIC	22PF	J		
C45,46			CK73FF1C105Z	CHIP C	1.0UF	Z		
C47,48			CE04HW1E100M	NP-ELEC	10UF	25WV		
C49			CE04KW0J221M	ELECTRO	220UF	6.3WV		2
C50			CK73FB1H103K	CHIP C	0.010UF	K		2
C51			CK45FB1H102K	CERAMIC	1000PF	K		2
C52-55			CE04KW1A101M	ELECTRO	100UF	10WV		2
C56			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C57			C90-1826-05	BACKUP-C	0.047F	5.5WV		6/1
C57			C90-2192-05	BACKUP	0.1F	5.5WV		2
C58			CE04KW0J471M	ELECTRO	470UF	6.3WV		
C59			CK73FB1H103K	CHIP C	0.010UF	K		
C60,61			CE04KW1V100M	ELECTRO	10UF	35WV		
C63			CE04KW1A101M	ELECTRO	100UF	10WV		
C64			CK73FB1H103K	CHIP C	0.010UF	K		2
C65			CK73FB1H103K	CHIP C	0.010UF	K		
C66			CE04KW1A101M	ELECTRO	100UF	10WV		2
C67			CE04KW1V100M	ELECTRO	10UF	35WV		
C68			CK73FB1H103K	CHIP C	0.010UF	K		2
C69			CE04KW0J471M	ELECTRO	470UF	6.3WV		
C72			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C74			CK73FF1E474Z	CHIP C	0.47UF	Z		
C75,76			CE04KW1A101M	ELECTRO	100UF	10WV		
C77,78			CF92FV1H331K	MF-C	330PF	K		
C79-82			CF92FV1H101K	MF-C	100PF	K		
C83,84			CF92FV1H272J	MF-C	2700PF	J		
C85,86			CF92FV1H151K	MF-C	150PF	K		
C87,88			CE04KW1V100M	ELECTRO	10UF	35WV		
C89-91			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C93			CC73FSL1H150J	CHIP C	15PF	J		
C94			CK73FB1H103K	CHIP C	0.010UF	K		
C97			CK73FB1H103K	CHIP C	0.010UF	K		
C100			CK73FB1H103K	CHIP C	0.010UF	K		
C101			CE04KW1A101M	ELECTRO	100UF	10WV		2
C102			CE04KW1V100M	ELECTRO	10UF	35WV		2
C103			CE04KW1V100M	ELECTRO	10UF	35WV		
C104			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C105			CE04KW1E222M	ELECTRO	2200UF	25WV		
C106			CE04KW1E471M	ELECTRO	470UF	25WV		
C107			CE04KW1H101M	ELECTRO	100UF	50WV		
C108-113			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C114			CC73FSL1H330J	CHIP C	33PF	J		
C116			CE04KW1A470M	ELECTRO	47UF	10WV		
C117,118			CC73FSL1H221J	CHIP C	220PF	J		

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NO.5

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
C119,120			CC73FSL1H680J	CHIP C	68PF	J		2
C121			CK73FF1C105Z	CHIP C	1.0UF	Z		
C124			CK73FB1H682K	CHIP C	6800PF	K		
C125			CC73FSL1H150J	CHIP C	15PF	J		
C126			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C127			CK45FF1H103Z	CERAMIC	0.010UF	Z		2
C128			CF92FV1H105J	MF-C	1.0UF	J		
C129			CK45FF1H103Z	CERAMIC	0.010UF	Z		2
C130			CK73FB1H223K	CHIP C	0.022UF	K		
C131			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV		
C132			CE04KW1A101M	ELECTRO	100UF	10WV		
C133			CK73FB1H103K	CHIP C	0.010UF	K		
C134			CK73FF1C105Z	CHIP C	1.0UF	Z		
C135			CK73FB1H103K	CHIP C	0.010UF	K		
C136			C90-3214-05	ELECTRO	100UF	6.3WV		
C137			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C138			CK73FB1H473K	CHIP C	0.047UF	K		
C139			CK73FB1H103K	CHIP C	0.010UF	K		
C140			CK73FB1H103K	CHIP C	0.010UF	K		2
C141,142			CK73FB1H103K	CHIP C	0.010UF	K		
C143-146			CC73FSL1H221J	CHIP C	220PF	J		
C147,148			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C149			CK45FF1H103Z	CERAMIC	0.010UF	Z		2
C151,152			CK73FB1H103K	CHIP C	0.010UF	K		
C153			CC73FSL1H150J	CHIP C	15PF	J		
C156			CK73FB1H103K	CHIP C	0.010UF	K		2
C157,158			CK73FB1H103K	CHIP C	0.010UF	K		
C159			CC73FSL1H150J	CHIP C	15PF	J		2
C160,161			CK73FB1H103K	CHIP C	0.010UF	K		
C162			CK73FB1H103K	CHIP C	0.010UF	K		2
C164-167			CC73FSL1H221J	CHIP C	220PF	J		
C168			CK73FB1H103K	CHIP C	0.010UF	K		
C169			CK73FF1E104Z	CHIP C	0.10UF	Z		
CN1	1F		E40-4171-05	FLAT CABLE CONNECTOR (31P)				
CN2	1F		E40-0612-05	PIN ASSY (6P)				
CN3	1F		E40-4362-05	PIN ASSY (2P RED)				
CN4	1F		E40-4161-05	FLAT CABLE CONNECTOR (21P)				
CN6	3C		E40-4201-05	FLAT CABLE CONNECTOR (21P)				
CN7,8	3C,3D	*	E40-4189-05	FLAT CABLE CONNECTOR (9P)				
CN9	2F		E40-4245-05	PIN ASSY (2P)				
CN10	1F	*	E40-4373-05	PIN ASSY (2P BLUE)				
CN11	1F		E40-3246-05	PIN ASSY (2P WHITE)				
CN12	1F		E40-4296-05	FLAT CABLE CONNECTOR (6P)				
J1		*	E63-0149-05	PHONO JACK(4P) AUDIO				
J5			E11-0188-05	MINIATURE PHONE JACK(2P)S.CONT				
J6		*	E11-0273-05	MINIATURE PHONE JACK(2P)RELAY				
J8		*	E56-0013-15	CYLINDRICAL RECEPTACLE KEY.BD				2
-			J11-0098-05	WIRE CLAMPER				
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
X1			L78-0299-05	RESONATOR (16.93M)				
X2			L78-0284-05	RESONATOR (5.000MHz)				
R1			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R2			RK73FB2A473J	CHIP R	47K	J 1/10W		

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NO.6

Ref. No.	Address	New Parts	Parts No.	Description			Destination	Remarks
R3			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R4			RK73FB2A243J	CHIP R	24K	J 1/10W		
R5			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R6			RK73FB2A124J	CHIP R	120K	J 1/10W		
R7			RK73FB2A334J	CHIP R	330K	J 1/10W		
R8			RK73FB2A273J	CHIP R	27K	J 1/10W		
R10			RK73FB2A104J	CHIP R	100K	J 1/10W		
R12			RK73FB2A104J	CHIP R	100K	J 1/10W		
R13			RK73FB2A101J	CHIP R	100	J 1/10W		
R14			RK73FB2A225J	CHIP R	2.2M	J 1/10W		
R15			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R16			RK73FB2A823J	CHIP R	82K	J 1/10W		
R17			RK73FB2A203J	CHIP R	20K	J 1/10W		
R18			RK73FB2A103J	CHIP R	10K	J 1/10W		
⚠ R19			RK73FB2A4R7J	CHIP R	4.7	J 1/10W		
R20			RK73FB2A394J	CHIP R	390K	J 1/10W		
R21			RK73FB2A153J	CHIP R	15K	J 1/10W		
R22			RK73FB2A101J	CHIP R	100	J 1/10W		
R23			RK73FB2A514J	CHIP R	510K	J 1/10W		
R24,25			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R26			RS14KB3DR68J	FL-PROOF RS	0.68	J 2W		
R27			RK73FB2A103J	CHIP R	10K	J 1/10W		
⚠ R34			RK73FB2A1R0J	CHIP R	1.0	J 1/10W		
R38			RK73FB2A471J	CHIP R	470	J 1/10W		
⚠ R45			RK73FB2A4R7J	CHIP R	4.7	J 1/10W		
R57-59			RK73FB2A221J	CHIP R	220	J 1/10W		
⚠ R60			RK73FB2A4R7J	CHIP R	4.7	J 1/10W		2
R64			RK73FB2A101J	CHIP R	100	J 1/10W		2
R69			RK73FB2A471J	CHIP R	470	J 1/10W		2
R76			RK73FB2A221J	CHIP R	220	J 1/10W		
R105,106			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R109,110			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R111,112			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R114,115			RK73FB2A104J	CHIP R	100K	J 1/10W		2
R116			RK73FB2A221J	CHIP R	220	J 1/10W		2
⚠ R118			RK73FB2A2R2J	CHIP R	2.2	J 1/10W		
R122			RK73FB2A223J	CHIP R	22K	J 1/10W		
R136,137			RK73FB2A104J	CHIP R	100K	J 1/10W		
R138			RK73FB2A223J	CHIP R	22K	J 1/10W		
R162-165			RK73FB2A683J	CHIP R	68K	J 1/10W		
R166			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R167			RK73FB2A334J	CHIP R	330K	J 1/10W		
R168			RK73FB2A203J	CHIP R	20K	J 1/10W		
R169			RK73FB2A513J	CHIP R	51K	J 1/10W		
R171			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R173			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R174			RK73FB2A243J	CHIP R	24K	J 1/10W		
R175			RK73FB2A392J	CHIP R	3.9K	J 1/10W		
R176			RK73FB2A104J	CHIP R	100K	J 1/10W		
R177			RK73FB2A684J	CHIP R	680K	J 1/10W		
R178			RK73FB2A100J	CHIP R	10	J 1/10W		
R182			RK73FB2A104J	CHIP R	100K	J 1/10W		
R188			RK73FB2A102J	CHIP R	1.0K	J 1/10W		2
R197			RK73FB2A124J	CHIP R	120K	J 1/10W		
R202			RK73FB2A104J	CHIP R	100K	J 1/10W		

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PARTS LIST

DP-J695/J1070/J2070

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NO.7

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
R204			RK73FB2A104J	CHIP R 100K J 1/10W		6/1
VR1			R12-3127-05	TRIMMING POT.(10K) FE-GAIN		
VR2			R12-3133-05	TRIMMING POT.(47K) TE-GAIN		
VR3			R12-3131-05	TRIMMING POT.(33K) FE-BIAS		
VR4			R12-3127-05	TRIMMING POT.(10K) TE-BALANCE		
W378			R92-0670-05	CHIP R 0 OHM		
S1-9			S40-1064-05	PUSH SWITCH		
S10			S62-0037-05	SLIDE SWITCH REMO-CON MODE		
⚠ S11			S31-3010-05	SLIDE SWITCH AC VOLTAGE SEL	YM	
S12			S31-2132-05	SLIDE SWITCH D.MEMORY/NORMAL		2
S13			S64-0006-05	LEVER SWITCH DOOR		
D1,2			HSS104	DIODE		
D1,2			1SS133	DIODE		
D3			1SS355	DIOD		
D4-6			HSS104	DIODE		
D4-6			1SS133	DIODE		
D7			HZS6.2N(B2)	ZENER DIODE		
D7			RD6.2ES(B2)	ZENER DIODE		
D10			1SS355	DIODE		
D11-18			HSS104	DIODE		
D11-18			1SS133	DIODE		
⚠ D19			S5688B	DIODE		
⚠ D19			1SR139-100	DIODE		
⚠ D20			KBP02ML-6127	DIODE		
D21			HZS33N(B)	ZENER DIODE		
D21			RD33ES(B)	ZENER DIODE		
D22			HZS6.8N(B2)	ZENER DIODE		6/1
D22			HZS8.2N(B2)	ZENER DIODE		2
D22			RD6.8ES(B2)	ZENER DIODE		6/1
D22			RD8.2ES(B2)	ZENER DIODE		2
⚠ D23			S5688B	DIODE		
⚠ D23			1SR139-100	DIODE		
D24-33			HSS104	DIODE		
D24-33			1SS133	DIODE		
D44			HSS104	DIODE		2
D44			1SS133	DIODE		2
D45			1SS355	DIODE		2
D48,49			1SS355	DIODE		
D52-55			1SS355	DIODE		2
D56-61			HSS104	DIODE		
D56-61			1SS133	DIODE		
D62,63			S5688B	DIODE		
D62,63			1SR139-100	DIODE		
D64-69			1SS355	DIODE		2
D70-73			1SS355	DIODE		
ED1		*	FIP12XM1DA	INDICATOR TUBE		2
ED2		*	FIP3GM7	INDICATOR TUBE		6/1
IC1			CXA1782BQ	IC(CD-DSP)		
IC2			CXD2500AQ	IC(SIGNAL PROCESSOR)		
IC2			CXD2500BQ	IC(DIGITAL SIGNAL PROCESSOR)		
IC3			BA6198FP	ANALOGUE IC		
IC7			CXD2512AQ	MOS-IC		2
IC8-11			HM514400CLTT-8	MEMORY IC		2
IC8-11			TC514400AFT-80	MEMORY IC		2

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NO.8

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
IC12		*	UPD78078GF-016	MI-COM IC		
IC13,14			TC74HC165AF	IC(8BIT SHIFT REGISTER)		
IC15		*	HM62256BLFP12T	MEMORY IC		
IC16			TC74HC373AF	IC(8 bit LATCH)		2
IC17			TC74HC00AF	IC(2INPUT NAND GATE)		2
IC18			TC9400F	MOS-IC		
IC19-21			NJM4580E	ANALOGUE IC		
IC24			TC74HC4053AF	IC		2
IC26			LC75711E	IC(DISPLAY DRIVER)		
⚠ Q1			2SB1370(E,F)	TRANSISTOR		
⚠ Q1			2SB1375	TRANSISTOR		
Q2			2SC2458(Y,GR)	TRANSISTOR		
Q2			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q3			2SD2012	TRANSISTOR		
⚠ Q3			2SD2061	TRANSISTOR		
Q4			DTC124ES	DIGITAL TRANSISTOR		
Q4			UN4212	TRANSISTOR		
Q5,6			2SC2878(B)	TRANSISTOR		
Q7			DTC124ES	DIGITAL TRANSISTOR		
Q7			UN4212	TRANSISTOR		
Q8			DTA124ES	DIGITAL TRANSISTOR		
Q8			UN4112	TRANSISTOR		
⚠ Q9			2SA954(L,K)	TRANSISTOR		
Q10			DTA124ES	DIGITAL TRANSISTOR		2
Q10			UN4112	TRANSISTOR		2
Q11			2SC2458(Y,GR)	TRANSISTOR		
Q11			2SC3311A(Q,R)	TRANSISTOR		
Q12,13			2SA954(L,K)	TRANSISTOR		
Q14			DTA124ES	DIGITAL TRANSISTOR		
Q14			UN4112	TRANSISTOR		
Q17-19			DTC113ZS	DIGITAL TRANSISTOR		
Q17-19			UN4219	TRANSISTOR		
Q20			DTC113ZS	DIGITAL TRANSISTOR		2
Q20			UN4219	TRANSISTOR		2
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1153-05	ELECTRIC CIRCUIT MODULE		

MECHANISM PCB

D2			B30-1012-05	LED(SLP-981C-51)		
C1			C90-3237-05	ELECTRO 47UF 25WV		
C2			CQ93FMG1H103J	MYLAR 0.010UF J		
C3,4			CQ93FMG1H104J	MYLAR 0.10UF J		
C5			CK45FF1H103Z	CERAMIC 0.010UF Z		
CN1	2E	*	E40-4818-05	FLAT CABLE CONNECTOR (16P)		
CN2	2E		E40-4211-05	FLAT CABLE CONNECTOR (31P)		
CN3	2E		E40-3264-05	PIN ASSY (6P)		
CN4,5	2E		E40-3260-05	PIN ASSY (2P)		
CN6	2E		E40-3262-05	PIN ASSY (4P)		
CN7	2E	*	E40-4969-05	PIN ASSY (5P)		
WH1	1D,2C	*	E35-1144-05	WIRING HARNESS (5P X92-CN7)		
PH1		*	T95-0140-05	OPTO ISOLATOR		
D1			HZS6.8N(B)	ZENER DIODE		

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NO.9

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
D1			RD6.8ES(B)	ZENER DIODE		
D3			HZS5.6N(B)	ZENER DIODE		
D3			RD5.6ES(B)	ZENER DIODE		
IC1			LB1641	IC(MOTOR DRIVER)		
IC2			TA8409S	IC(MOTOR CONTROL)		
Q1			DTC124ES	DIGITAL TRANSISTOR		
Q1			UN4212	TRANSISTOR		
Q2			DTC143TS	DIGITAL TRANSISTOR		
Q2			UN4216	TRANSISTOR		
MECHANISM (X92-2050-10)						
1	2D	*	A10-3204-01	CHASSIS ASSY		
2	1D	*	A11-1057-03	SUB CHASSIS CALKING ASSY		
3	1E	*	A11-1059-03	SUB CHASSIS (CLAMP)		
4	1B	*	A11-1064-02	SUB CHASSIS ASSY (T.U)		
6	2C	*	A11-1066-03	SUB CHASSIS CALKING ASSY(GIDE)		
7	2C	*	A11-1068-03	SUB CHASSIS CALKING ASSY (LD)		
15	3E	*	A29-0396-02	PANEL (RACK A)		
15	3E	*	A29-0400-02	PANEL (RACK B)		
DM	2B	*	A11-1082-08	SUB CHASSIS ASSY		
25	1D	*	D10-3534-03	ARM ASSY (DRIVE)		
27	1D	*	D10-3539-04	ARM (LIFT CHANGE)		
28	2C	*	D10-3540-03	LEVER (CLAMP)		
29	2C	*	D10-3542-02	ARM (FRONT)		
30	2C	*	D10-3543-03	ARM (REAR)		
35	2D	*	D10-3549-01	SLIDER (LIFT)		
36	1C	*	D10-3551-03	SLIDER (LD)		
39	1D	*	D10-3567-04	ARM ASSY (LINK)		
40	2D	*	D10-3568-04	ARM ASSY (SHAFT)		
41	2C	*	D10-3569-02	SLIDER ASSY		
43	3E	*	D10-3586-04	SLIDER ASSY		
44	2C	*	D10-3599-04	LEVER ASSY		
45	2A	*	D10-3606-08	ROD		
46	1C		D13-0978-03	GEAR (IDLER)		
47	2D	*	D13-1683-03	WORM (PULLEY)		
48	2E	*	D13-1684-04	GEAR (SELECT)		
49	1C	*	D13-1686-03	GEAR (INNER)		
50	1C	*	D13-1687-03	GEAR (CARRIER)		
51	1C	*	D13-1688-04	GEAR (SUN)		
52	2F	*	D13-1718-04	RACK (GEAR) (STOCKER)		
53	2B	*	D13-1720-08	GEAR		
56	2E	*	D15-0381-04	PULLEY		
57	2E	*	D16-0382-04	BELT		
59	3E		D39-0316-05	DAMPER		
65	2F	*	E30-2811-05	CONNECT CORD ASY(WHT X32-CN11)		
66	3E	*	E30-2812-05	CONNECT CORD ASY(BLU X32-CN10)		
66	3E	*	E30-2813-05	CONNECT CORD ASY(RED X32-CN3)		
67	2E	*	E35-1080-05	FLAT CABLE ASSY(31P X32-CN1)		
69	2D	*	E35-1141-05	WIRING HARNESS (4P X92-CN6)		
70	2D	*	E35-1142-05	WIRING HARNESS (2P X92-CN4)		
71	3B	*	E35-1143-05	WIRING HARNESS (6P X92-CN3)		
72	2C	*	E35-1145-05	WIRING HARNESS (2P X92-CN5)		
73	3B		E40-3264-05	PIN ASSY (6P)		
75	2E	*	F19-1061-04	COVER		

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NO.10

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
86	3E	*	G01-3785-04	TORSION COIL SPRING		
88	2F,3F	*	G01-3805-04	EXTENSION SPRING		
89	2C		G10-0146-04	NON-WOVEN FABRIC		
90	2C	*	G10-0421-04	NON-WOVEN FABRIC		
91	2D	*	G13-0514-04	CUSHION		
92	1E	*	G16-0861-14	RUBBER SHEET		
93	1E	*	G16-0868-04	RUBBER SHEET		
96	2E	*	J11-0803-03	CLAMPER		
97	2F		J19-0306-05	LEAD HOLDER		
99	2D	*	J19-3761-03	HOLDER (SHAFT)		
100	1D	*	J19-3762-02	HOLDER (GIDE)		
102	3E	*	J19-3764-11	HOLDER ASSY (DISC 1-50)		
102	3E	*	J19-3794-11	HOLDER ASSY (DISC 51-100)		
103	3E	*	J19-3765-01	HOLDER (STOCKER)		
104	3E	*	J19-3767-03	HOLDER		
105	2C	*	J19-3778-04	HOLDER ASSY (LED)		
106	3E	*	J21-6247-05	RAIL		
107	2D	*	J21-6248-05	RAIL		
112	1D	*	J90-0822-03	RAIL		
113	1D	*	J90-0823-03	GUIDE (LEVER)		
114	2E	*	J90-0824-03	STOPPER		
115	2E	*	J90-0825-13	STOPPER		
116	2D	*	J90-0839-04	GUIDE (SHAFT)		
-			J61-0307-05	WIRE BAND		
120	3E	*	K29-6144-03	KNOB (PUSH)		
AD	3E		N19-0543-04	FLAT WASHER		
AE	2E		N29-0067-05	PUSH RIVET (3.5X4.5)		
E	1A,1B		N19-1105-04	FLAT WASHER		
F	3E	*	N09-3166-05	STEPPED SCREW (M3X6)		
R	2F		N09-2650-05	MACHINE SCREW (BLACK M3X3.5)		
V	2C	*	N09-3188-05	MACHINE WITH WASHER (M2.6X3)		
X	2E		N09-3031-05	MACHINE (POWER LOCK M2X2.5)		
Y	2B,2D		N09-2817-05	P-TITE WITH WASHER (M2.6X10)		
Z	2D,2E		N09-2769-05	P-TITE MACHINE SCREW (M2.6X8)		
125	2C,2D		S33-1022-05	LEVER SWITCH		
126	3B		S74-0038-08	LEAF SWITCH		
130	1E	*	T50-1070-04	YOKE		
131	1E	*	T99-0565-05	MAGNET		
FM	3B	*	T42-0817-08	MOTOR ASSY		
LM	2D	*	T42-0803-05	DC MOTOR (LOADING)		
PU	2A		T25-0041-05	OPTICAL PICKUP HEAD		
SM	2E	*	T42-0802-05	DC MOTOR (SELECT)		

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DP-J695/J1070/J2070

SPECIFICATIONS

Format
System ..... Compact disc digital audio system
Laser ..... Semiconductor laser
Number of channels ..... 2 channels
Playing rotation ..... 200 rpm ~ 500 rpm (CLV)

D/A Convertors
D/A conversion ..... 1 Bit
Oversampling ..... 8 fs (352.8 kHz)

Audio
Frequency response ..... 4 Hz ~ 20 kHz, ±1.0 dB
Signal to noise ratio ..... More than 98 dB
Dynamic range ..... More than 95 dB
Total harmonic distortion ..... Less than 0.005 % (at 1 kHz)
Channel separation ..... More than 85 dB (at 1 kHz)
Wow & flutter ..... Unmeasurable Limit
Output level/impedance
Fixed ..... 2.0 V/3.2 kΩ

General
Power consumption ..... 15 W
Dimensions ..... W: 440 mm (17-5/16")
H : 185 mm (7-5/16")
D : 415 mm (16-5/16")
Weight (Net) ..... 10.8 kg (23.8 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:
Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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